

Armstrong, Kathy

From: Sayre, Dennis
Sent: Thursday, July 16, 2015 12:55 PM
To: hughsmith@meridianms.org
Cc: Janovitz, Sara; Baschon, Carol; Glaze, Rich; Bush, William
Subject: South Plant inspection report and reference info
Attachments: Meridian,MS CS I # 15-0233 Final.pdf

Hugh,

Thanks for the hospitality in Meridian. Here's the inspection report for the South Plant. The SESD inspector told me earlier this week that he would try to finish the East Plant report by the end of the month. I'll send it to you shortly thereafter. Also, MDEQ stated that they were not familiar with the reference used in the CD titled *Guidance for the Design of Publicly Owned Wastewater Facilities*. I guess it's not something that the DEQ compliance folks utilize, but It's on their revolving funds website:

https://www.deq.state.ms.us/mdeq.nsf/page/SRF_Water_PC_RLP?OpenDocument#_Section1

Sincerely,
Dennis

Dennis J. Sayre | Environmental Engineer | Inspector
NPDES Permitting and Enforcement Branch | Municipal & Industrial Enforcement Section
U.S. EPA Region 4 | 61 Forsyth St., SW | Atlanta, Georgia 30303
(404) 562-9756

"The great tragedy of Science — the slaying of a beautiful hypothesis by an ugly fact." T.H. Huxley

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4**

Science and Ecosystem Support Division
Field Services Branch
980 College Station Road
Athens, Georgia 30605-2720

June 11, 2015

4SESD-FSB

MEMORANDUM

SUBJECT: Meridian POTW Compliance Sampling Inspection
311 27th Avenue
Meridian, MS
SESD Project # 15-0233

FROM: Bill Simpson *WES 6-11-15*
Enforcement Section

THRU: Mike Bowden, Chief *MB 6-11-15*
Enforcement Section

TO: Maurice Horsey, Chief
Municipal and Industrial Enforcement Section
Water Protection Division

Attached is a copy of the report for the *Compliance Sampling Inspection of Meridian POTW* that was conducted in Meridian, MS on March 16-19, 2015. The final report has not been distributed. If you have any questions, please contact me at (706) 355-8748, or email me at simpson.bill@epa.gov

United States Environmental Protection Agency
Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720



Compliance Sampling Investigation
City of Meridian Publicly Owned Treatment Works
Meridian, Mississippi
Inspection Date: March 17-18, 2015
NPDES Permit No. MS0020117
SESD Project ID No. 15-0233


Requestor: Maurice Horsey, Chief
Municipal and Industrial Enforcement Section
Water Protection Division
USEPA Region4, 61 Forsyth St. SW
Atlanta, Georgia 30303-8960

SESD Project Leader: Bill Simpson
Environmental Scientist, Enforcement Section
Field Services Branch
980 College Station Road
Athens, Georgia 30605-2720

Title and Approval Sheet

Title: Compliance Sampling Inspection
City of Meridian POTW

Approving Official:



Mike Bowden, Chief
Enforcement Section
Field Services Branch

6/11/15
Date

SESD Project Leader:



Bill Simpson, Environmental Scientist
Enforcement Section
Field Services Branch

6-11-15
Date

**Compliance Sampling Inspection
City of Meridian POTW
Meridian, MS**

INTRODUCTION

On March 17-18, 2015, representatives of the U.S. Environmental Protection Agency, Science and Ecosystem Support Division (USEPA – SEDS), conducted a Compliance Sampling Inspection (CSI) at the City of Meridian Publicly Owned Treatment Works (POTW) in Meridian, MS. The CSI was performed at the request of the NPDES Permitting and Enforcement Branch, USEPA Region 4, as a follow-up inspection after the Compliance Evaluation Inspection conducted on April 8-9, 2014 by the Water Protection Division. Recommendations in this report address the current plant as configured.

The following personnel participated in the compliance sampling inspection:

<u>Name</u>	<u>Organization</u>	<u>Telephone</u>
Bill Simpson	USEPA–SESD, Inspector	(706) 355-8748
Jairo Castillo	USEPA–SESD, Inspector	(706) 355-8621
Derek Little	USEPA–SESD, Env. Engineer	(706) 355-8717
Jim Harvey	MSDEQ Inspector	(601) 961-5591
Terry Cook JR.	Meridian POTW, Chief Operator	(601) 616-3328
Hugh Smith	Meridian, MS Director of Utilities	(601)484-6836

BACKGROUND

The City of Meridian, MS is located in Lauderdale County Mississippi. The Meridian South Wastewater Treatment plant (South Plant) is authorized to discharge under Mississippi Department of Environmental Quality (MSDEQ) NPDES Permit number MS002117. The South Plant is comprised of two activated sludge plants referred to as the “old” and the “new” plant that combine to handle the City of Meridian’s wastewater flow. The “old plant” was constructed in 1959, and is a conventional activated sludge facility that handles approximately 4 million gallons per day (MGD) flow. The “new plant” is a 1985 two- stage aeration activated sludge plant that handles approximately 9 MGD of the city’s flow (See figure 1 page 6). Both of these two plants, the “old” and the “new”, have primary and secondary clarifiers. Both processes combine for a total flow of approximately 13 MGD of treated sewage that is discharged to the Sowashee Creek. The plant has adequate overflow capacity with an additional lagoon for rain event storage. The City of Meridian has asked the MSDEQ to terminate the Meridian East Plant (East Plant) NPDES Permit Number MS0055735 in a letter dated February 6, 2014. See appendix C for copies of correspondence between Meridian and MSDEQ. The East Plant can only discharge to the Mississippi Power Company (MPC Kemper Facility) or gravity flow back to the South Plant to discharge treated sewage into Sowashee Creek under the combined outfall 002. The city is currently transitioning to a 100% re-use system by supplying 100% of the flow from the combined South Plant and East Plant flow to be used as cooling water for the Mississippi Power Company (MPC Kemper). The main pumping station for MPC Kemper was completed and located adjacent to the Meridian South Plant. See appendix A for photographs of the South Plant. Please refer to the SEDS project number 15-0234 for the Compliance Evaluation Inspection Report that was conducted for the Meridian East Plant.

This report (project number 15-0233) only addresses the concerns of the Meridian South Plant.

SUMMARY

During SEDS's investigation, both the influent and effluent streams were sampled with 24 hour time composite samplers and grab samples. The samples were analyzed for total metals, biochemical oxygen demand, 5 day carbonaceous (CBOD₅), total suspended solids, nutrient series (total Kjeldahl nitrogen, ammonia, nitrate/nitrite, and phosphorous), and cyanide. Grab samples were also obtained from the old and new plant aeration basins. Water quality parameters were sampled in-situ. Flow measurement at the facility is conducted by a combination of Parshall flumes (primary) and Siemens Ultrasonic systems (secondary) for the influent and effluent flow measurement systems.

Using information from Discharge Monitoring Reports and design blueprints provided by the Chief Operator and the Director of Utilities for the City of Meridian, and the results of the SEDS sampling study, the major processes were assessed. Table 1 (page 9) includes sample identification and location descriptions.

The strength of the influent wastewater for CBOD₅, ammonia, nitrate-nitrite, total phosphorus, and Total Kjeldahl Nitrogen (TKN) was low-range for a typical wastewater influent concentrations (Table 2 page 9).

SEDS's effluent data indicated that all parameters; CBOD₅, TSS, Total Copper, Cyanide, pH and dissolved oxygen were within permit requirements. The percent removal calculations for CBOD₅ and TSS were within permit requirements (Table 3 page 10).

The process control data (Table 5, page 11) indicated that the food to microorganism (F/M) ratio for the old plant is under typical values. This could be due to the Inflow and Infiltration (I&I) issues associated with the old plant, and subsequent light BOD loading, or due to the lack of proper process return activated sludge (RAS)/ waste activated sludge (WAS) flow meters.

Flow measurement for the facility is discussed in Table 7, page 12.

Major Findings:

- Plant infrastructure is aging and failing. Internal corrosion on the return activated sludge (RAS) piping is deteriorating at a considerable rate. New pin hole leaks are starting as soon as repairs are completed. New piping upgrades need to occur soon. Both the old and the new plants require significant piping upgrades. The broken chain drive on the old plant clarifier needs to be repaired.
- The return activated sludge (RAS) / waste activated sludge (WAS) process flow decisions are based off the mixed liquor suspended solids (MLSS) numbers provided by the laboratory. The facility is operating the biological systems without adequate knowledge of the RAS/WAS flows. No process flow meters are used.
- Inflow and Infiltration (I&I) issues continue to be a concern for a plant of this age.

- The flow measurement systems for both the old and new plant were accurate. Primary and secondary devices for both the influent and effluent flow were within 6% of each other. This is within the USEPA recommended percentage of 10 percent.
- The Meridian onsite laboratory appeared in good order. The laboratory was using correct methods and producing measurement based data of documented quality. Reports were clear concise and orderly.
- Innovative solutions proposed by the Chief Operator and the Director of Utilities hold great promise for the future of the City of Meridian. The 100% water re-use agreement between the City of Meridian and the MPC Kemper is an innovative and hopefully financially rewarding solution to the necessary plant upgrades.

Recommendations:

- Plant upgrades need to occur as soon as possible. A construction schedule should be developed by the city for the proposed plant upgrades. At the time of this report no schedule had been developed. Plans for the plant upgrades were provided to the SESD on March 18, 2015.
- Additional resources need to be allocated for maintenance teams to repair the aging plant systems; such as, the RAS piping and the broken chain drive.
- Dedicated RAS and WAS meters need to be installed. Accurate, timely process flow measurement of the biological systems will help make the plant to become more efficient.
- Plant upgrades should aid with some of the current I&I issues.
- City officials should continue to investigate innovative solutions for water reuse which enables the City of Meridian to create more efficient and sustainable operations.

Figure 1: Meridian, MS South Plant Facility diagram

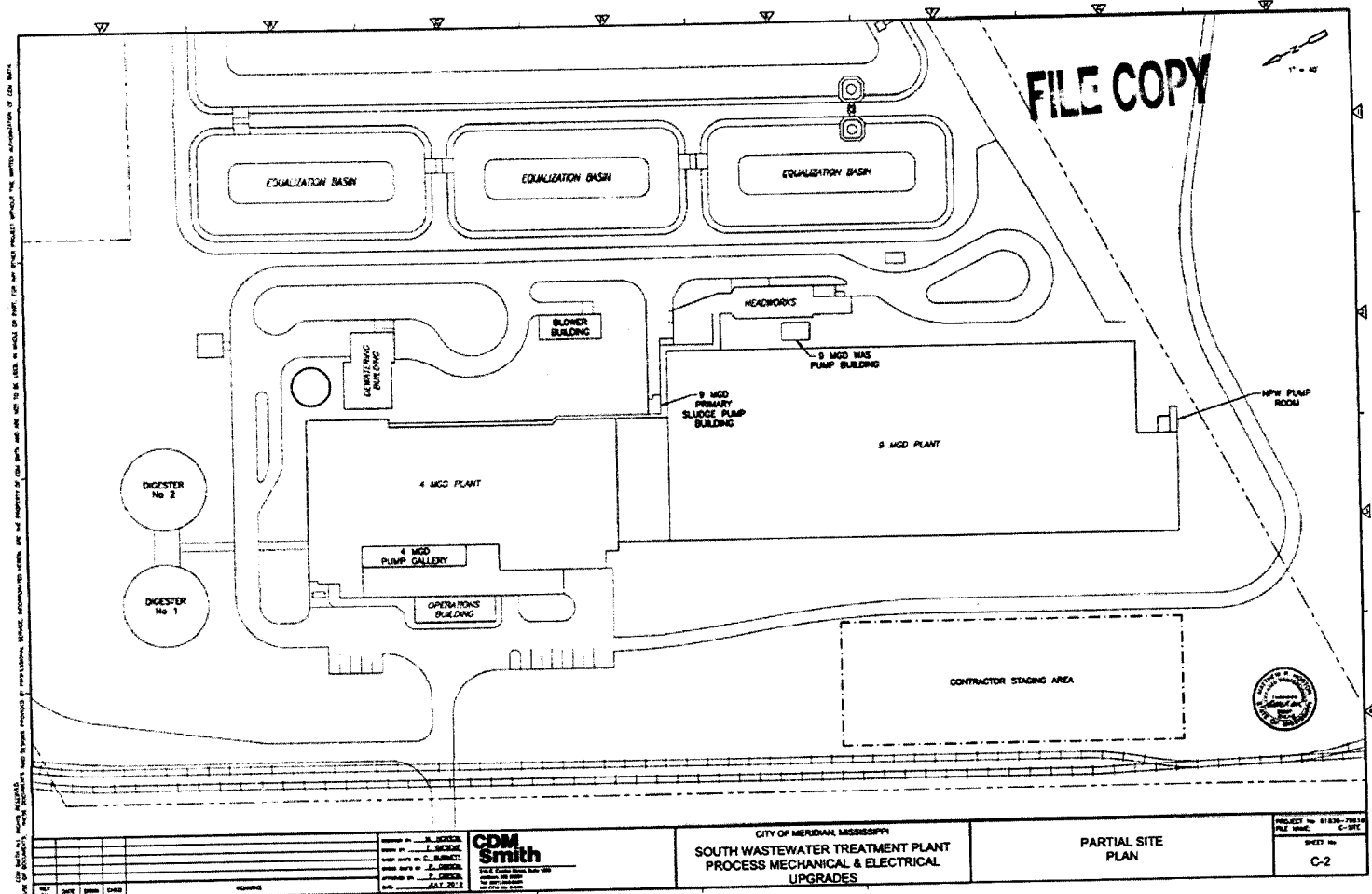
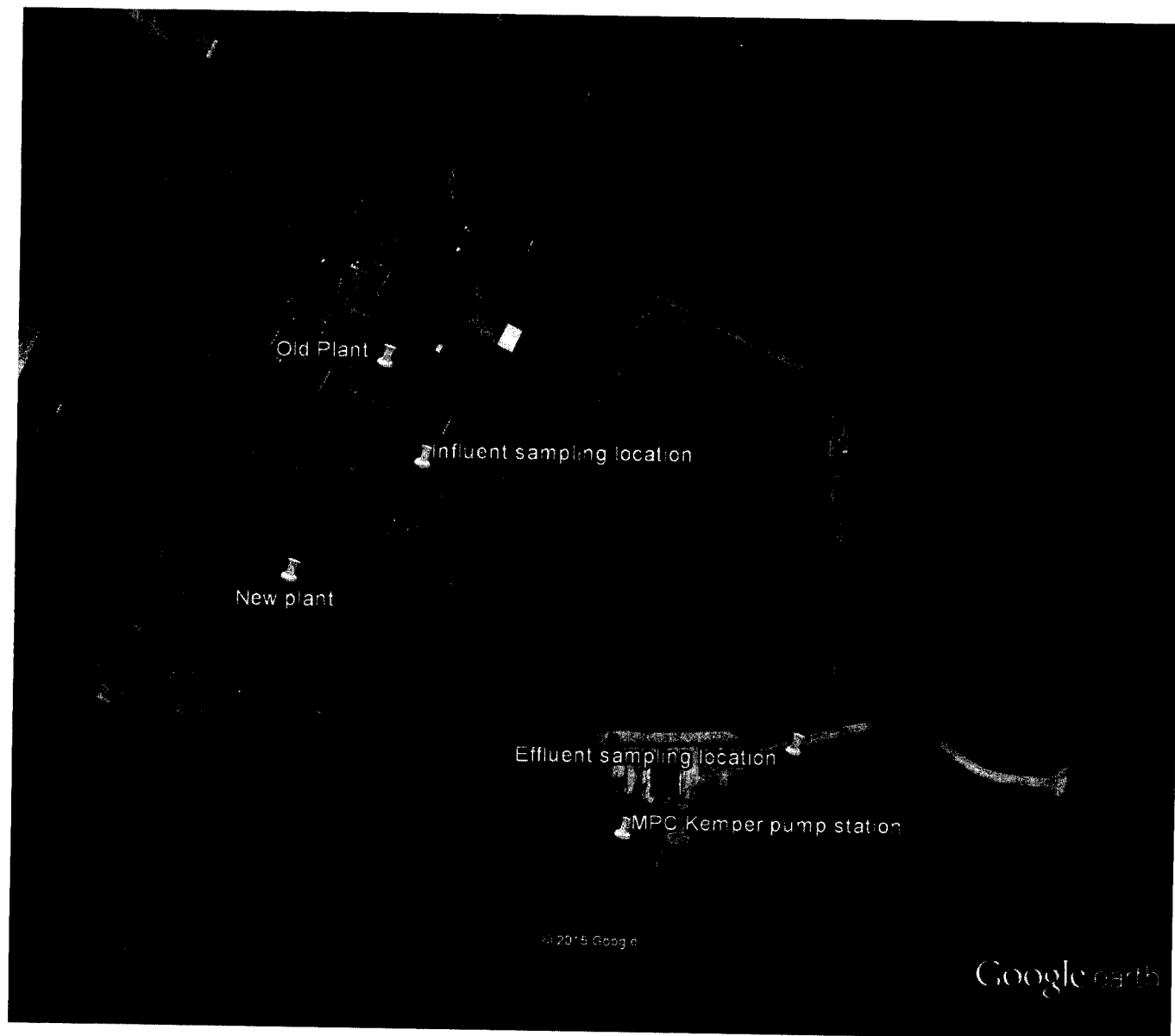


Figure 2
Google Earth Photo of Meridian POTW
(South Plant)
Meridian, MS (Lauderdale County)



DISCUSSION OF FIELD ACTIVITIES

The purpose of the compliance sampling inspection of the facility was to compare the analytical data gathered against the wastewater discharge limitations, monitoring requirements and other conditions set forth in the MSDEQ permit. Additionally, the progress on proposed construction upgrades was evaluated.

SESD personnel arrived at the site at about 9:00 AM on March 17, 2015, and met with Mr. Terry Cooke JR (Chief Operator), Mr. Hugh Smith (Director of Utilities), and Mr. Jim Harvey (MSDEQ). Figure 2 indicates sample locations, and photographs are included in Appendix A. The influent sampling location consisted of samples collected in the influent process after screening and before the flow was split to the old and new plant. See Table 1 for sample identification and location descriptions. The effluent sampling location consisted of samples collected in the manhole below the MPC Kemper pump station. Automated samplers were programmed to collect 24 hour time composite samples from the influent location (M01inf) at 11:00 on 3/17/2015, and from the effluent (M02eff) at 11:00 on 3/17/2015. Grab samples were collected before the automated samplers were started. Primary clarifier samples from the old plant (M06pc) were collected at 12:20 pm on 3/18/2015. Primary clarifier samples from the new plant (M04pc) were collected at 12:00 pm on 3/18/2015. Aeration basin grab samples for total suspended solids and total volatile suspended solids were collected from the old (M07ab) and new (M05ab) plants at 14:25, and 14:20 on 3/18/2015 respectively. Sampling was completed at approximately 15:00 PM on 3/18/2015.

The facility provided influent and effluent data for the period November 2013 to January 2015.

RESULTS OF ANALYSES

Samples were analyzed in accordance with the *SESD Analytical Support Branch Laboratory Operations and Quality Assurance Manual*, most recent version. Automatic sampling locations were sampled for CBOD5, TSS, total metals, nutrients, and cyanide. Grab samples were collected for CBOD5, TSS, TVSS and nutrients. The analytical methods used are presented in SESD's analytical reports included as appendix D. Water quality parameters were measured in-situ. Table 3, page 10, summarizes the SESD sampling results versus permitted limits. Laboratory analysis indicate that all sample results are within permit requirements listed in the MSDEQ permit.

The strength of the influent wastewater for CBOD5, ammonia, nitrate-nitrite, total phosphorous, and Total Kjeldahl Nitrogen (TKN) was low-range. The findings are consistent with a plant having an aging infrastructure and inflow & infiltration (I&I) issues. Table 2 shows a comparison of SESD influent analytical results and typical influent wastewater concentrations. The City of Meridian influent values are typical of many medium strength municipalities.

Table 1
Sample Identification and location descriptions

Sample Identification	Location Description
M01inf	Influent setup after screening, before split to old and new plant. See photo 1126 page 17.
M02eff (outfall 002)	Effluent sampler setup below MPC Kemper pump station at manhole. See photo 1132 page 17.
M04pc	New plant: grab sample from primary clarifier.
M05ab	New plant; grab sample from first stage aeration basin, effluent discharge.
M06pc	Old plant: grab sample from primary clarifier.
M07ab	Old plant; grab sample from aeration basin, effluent discharge.

Table 2
Comparison of Influent Results

Parameter	Typical Value*			City of Meridian Influent EPA Result
	Low	Medium	High	
CBOD ₅ (mg/L)	110	190	350	100
TSS (mg/L)	120	210	400	150
TKN (mg/L)	20	41	70	15
Ammonia (mg/L)	12	25	45	11
Nitrate/Nitrite as N (mg/L)	0	0	0	0.075
Total Phosphorus (mg/L)	4	7	12	6.9

*Wastewater Engineering: Treatment and Reuse” 4th edition, Metcalf& Eddy, 2003.
McGraw- Hill Companies, Inc. NYC³

Table 3: EPA Sampling results and effluent permit limits

Effluent Permit Limit (monthly conc. Ave.)	Influent (M01inf)	Primary Clarifier Old Plant (M06pc)	Primary Clarifier New plant (M04pc)	Effluent (M02eff)	Removal Efficiency %
(85 % removal)	100	64	59	6.5A	93.5
(85% removal)	150	57	48	10	93.3
none	15	11	10	1.4	90.6
report only	11	6.7	7.3	0.28	99.7
none	0.075	0.068	0.050U	7.7	n/a
report only	6.9	2.3	2.5	1.7	75.3
0.0051	0.01 U	Not sampled	Not sampled	0.01 U	n/a
0.0053	Not sampled	Not sampled	Not sampled	15U	n/a
6-9	6.69	Not sampled	Not sampled	6.60	n/a
6.0 min	Not sampled	Not sampled	Not sampled	8.73	n/a

In-situ water quality measurements are listed in Table 4. Results are within permit requirements listed in the MSDEQ permit.

Table 4 In-situ measurement data recorded on March17, 2015

Parameters	Influent	Effluent
pH	6.69 @ 21.5°C	6.60 @ 22.6°C
Specific conductance	415 us/cm	325 us/cm
Dissolved oxygen	not conducted	8.73 mg/l
Total residual chlorine	not conducted	0.09 mg/l

The Meridian laboratory provided process control data for March 17, 2015. The analytical results from the SESD laboratory and the Meridian laboratory are comparable. Both aeration trains (old and new) exhibited similar sludge volume index (SVI) results in the 50-150 range. This range is typical for a well-operated activated sludge wastewater system. Process control interpretation of the SVI indicate a rapid settling sludge associated with older oxidized sludge. The food to microorganism (F/M) ratio of a typical conventional activated sludge plant is between 0.2 and 0.6 *. The values are listed in Table 5: Process Control Data. The F/M ratio for the old plant is under typical values. This could be due to the Inflow and Infiltration (I&I) issues associated with the old plant and subsequent light BOD loading, or due to the lack of proper process RAS/WAS flow meters. The MLSS/MLVSS solids under aeration appear adequate for typical design parameters. See calculations in appendix B page 20. SESD's complete analytical reports are included as appendix D

Table 5: Process Control Data

Process Control	Old Plant	New Plant (first stage)
SVI	81	141
MLSS / MLVSS (mg/L)	MLSS=4100 MLVSS=2700	MLSS= 2400 MLVSS=1760
Solids in aeration tank (lbs.)	60,147.3 lbs.	18,714.9 lbs.
F/M ratio	0.033	0.30

*Wastewater Engineering: Treatment and Reuse" 4th edition, Metcalf& Eddy, 2003.
McGraw- Hill Companies, Inc. NYC³

The analytical results indicate the facility is optimizing the activated sludge process for both the old and the new plant. Table 6 summarizes the removal efficiency of the South Plant. Considering the facility's infrastructure limitations, the plant showed a high removal efficiency of solids and nutrients.

Table 6: Removal Efficiency

Parameters	South Plant	Old Plant (M06pc)	New Plant (M04pc)
	Influent-effluent %	influent- primary clarifier %	influent- primary clarifier %
CBOD5	93.5	36	41
TSS	93.5	62	68
Ammonia	99.7	39	33.6
Phosphorus	75.3	66.6	63.7

Note: Removal efficiency calculation = % (in-out/in *100)

The flow measurement systems for both the old and new plant were accurate. Table 7 describes flow measurement in the south plant. Primary and secondary devices for influent and effluent were within 6 % of each other. This is within the EPA recommended percentage of 10 percent.

Table 7: Flow Measurement

Location	Old or New Plant	Type of Primary Device	Head reading	Primary device Flow MGD	Type of Secondary Device	Secondary device Flow MGD	% error with secondary device.*
Influent	Old Plant	Parshall flume (1 foot)	0.96 feet	2.429	Siemens ultrasonic	2.516	3.58 %
	New Plant	Parshall flume (2 foot)	1.34 feet	8.138	Siemens ultrasonic	8.450	3.83%
Effluent	Old Plant	Parshall flume (2 foot)	1.2 feet	2.353	Siemens ultrasonic	2.371	0.76 %
	New Plant	Parshall flume (1 foot)	0.94 feet	6.858	ISCO 3010	6.465	5.73%

Note: % Error calculation = (primary-secondary/primary x 100)*

RESULTS OF FIELD QUALITY CONTROL SAMPLES

Field quality control samples for this investigation consisted of:

- Sample ERB was an equipment rinse blank used as in-house quality control to test the uncontaminated quality of the automated samplers (Teflon tubing and composite bottle).
- For the metals, nutrients, CBOD₅, and TSS analysis sample M02eff (automatic sampler) was used as the source for the matrix spike/matrix spike duplicate (MS/MSD) sample. For the Cyanide analyses sample M02eff (grab) was used as the source matrix spike/matrix spike duplicate (MS/MSD) samples.
- Results of quality control analyses are contained in the Laboratory Analytical Reports in appendix C, and are acceptable for the purposes of this investigation.

METHODOLOGY

Field activities were conducted in accordance with the Region 4, SESD *Field Branches Quality System and Technical Procedures*. Specific field procedures applicable to this investigation included the following:

Wastewater Sampling, SESDPROC-306-R3

Wastewater Flow Measurement, SESDPROC-109-R3

Global Positioning System, SESDPROC-110-R3

Logbooks, SESDPROC-10-R5

Field pH, SESDPROC-100-R3

Field Specific Conductance, SESDPROC-101-R5

Field Temperature, SESDPROC-102-R4

Field Equipment Cleaning and Decontamination, SESDPROC-205-R2

Management of Investigation Derived Waste, SESDPROC-202-R3

NPDES Compliance Inspection Manual 7/2004

The SESD laboratory is accredited by the ANSI-ASQ National Accreditation Board/ACLASS for ISO/IEC 17025. The SESD Field Branches are accredited by the ANSI-ASQ National Accreditation Board/ACLASS for ISO/IEC 17025 for Forensic Testing.

CONCLUSIONS

The City of Meridian POTW should continue to investigate innovative solutions for water reuse which enables the City to create more efficient and sustainable operations. The SESD findings from this investigation indicate three major issues that need to be remedied.

1. Plant infrastructure is aging and failing. Plant upgrades need to occur as soon as possible. A construction schedule should be developed by the city for the proposed plant upgrades.
2. Additional resources need to be allocated for maintenance teams to repair the aging plant infrastructure.
3. I&I issues need to be addressed as funding is available. I&I issues will continue, but the plant upgrades will aid with some of the problems.

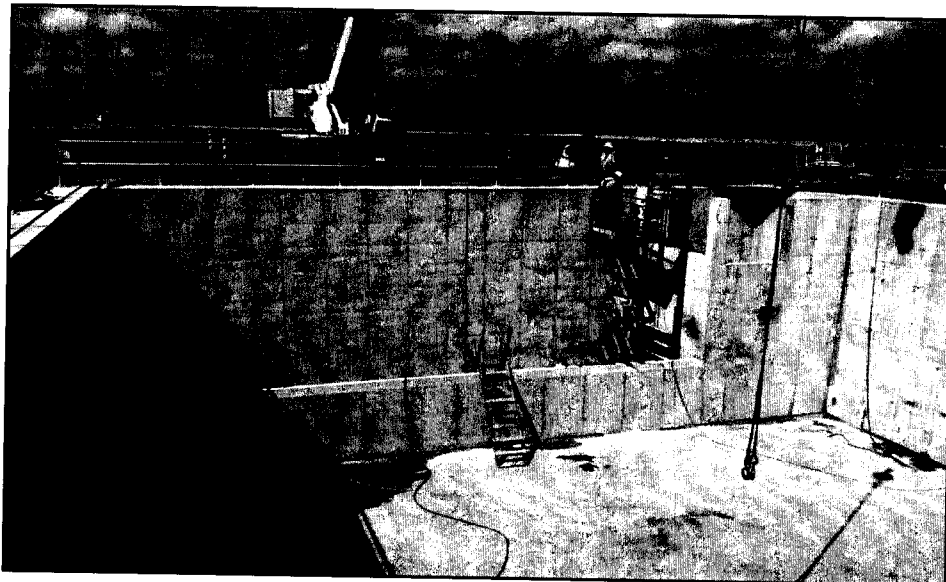
REFERENCES

1. "Wastewater Engineering: Treatment and Reuse" 4th edition, Metcalf& Eddy, 2003.
McGraw- Hill Companies, Inc. NY
2. "Operation of Wastewater Treatment Plants" Volume 1, 2, Seventh Edition, California State University, Sacramento, 2008
3. "Isco Open Channel Flow Measurement Handbook" sixth edition, Teledyne Isco, Inc. 2008.
Lincoln, NE
4. Advanced Waste Treatment", Fifth Edition, California State University, Sacramento, 2002.
5. "Water Supply and Control"3rd edition, Clark, Viessman, Hammer, 1977.
Thomas T. Crowell Company, Inc.
7. "Wastewater Treatment/Disposal for Small Communities" Office of Water U.S.EPA
EPA/625/R-92/005, August 1992
8. NPDES Compliance Inspection Manual, Office of Enforcement and Compliance
Assurance U.S.EPA, September 1994
9. Aerobic Biological Wastewater Treatment Facilities, Process Control Manual,
Office of Water U.S.EPA, EPAIII-A-524-77, March 1977

Appendix A
Photographs of Meridian POTW March 17 and 18, 2015
All photographs taken by B. Simpson



Photo 1131- 3/17/15
MPC Kemper Pump Station, Facing south



Construction photo- Facility photo
MPC Kemper Pump Station, under
construction. Facing east

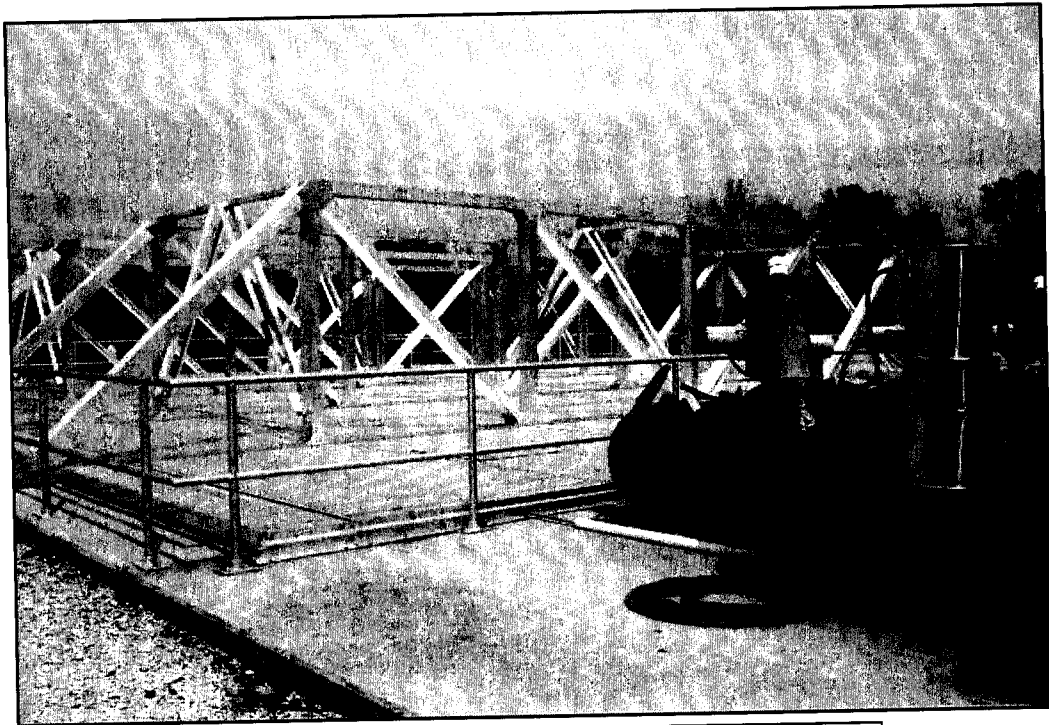


Photo 1128– 3/17/15
MPC Kemper Pump Station, construction
complete. Facing east

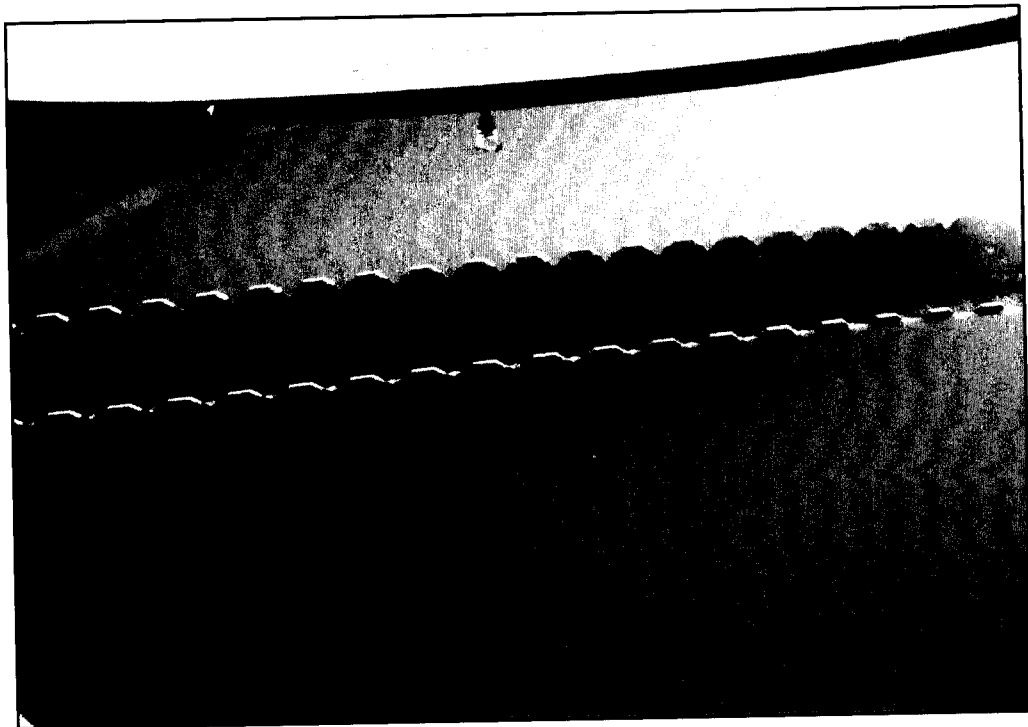


Photo 1109– 3/17/15
Repaired weir plate on clarifier (old plant)
Facing east

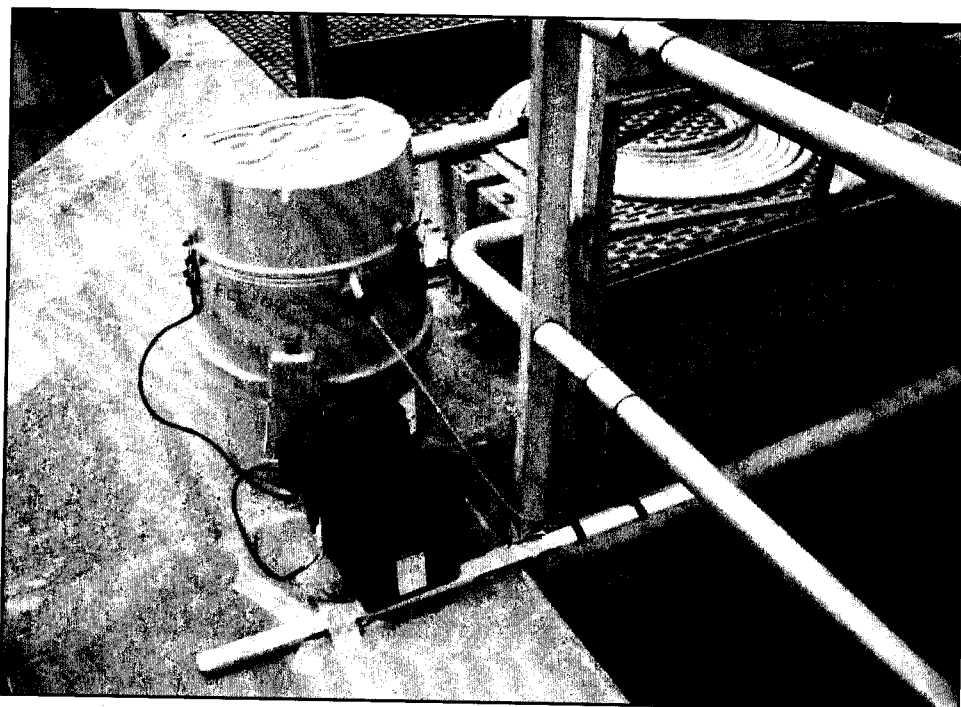


Photo 1126– 3/17/15
Influent sampler setup below screening
Facing north

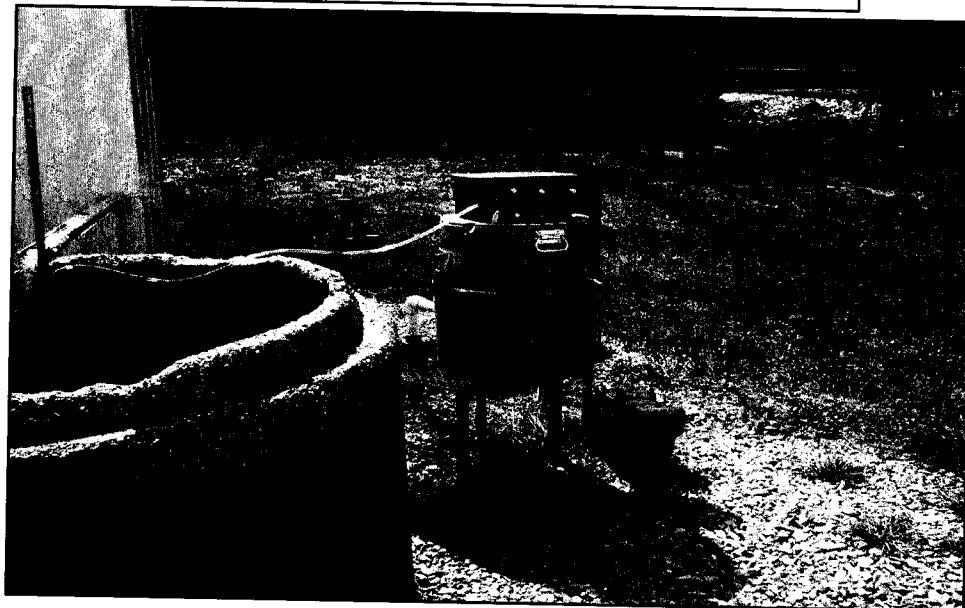


Photo 1132– 3/17/15
Effluent sampler setup below MPC Kemper pump
station. Facing west

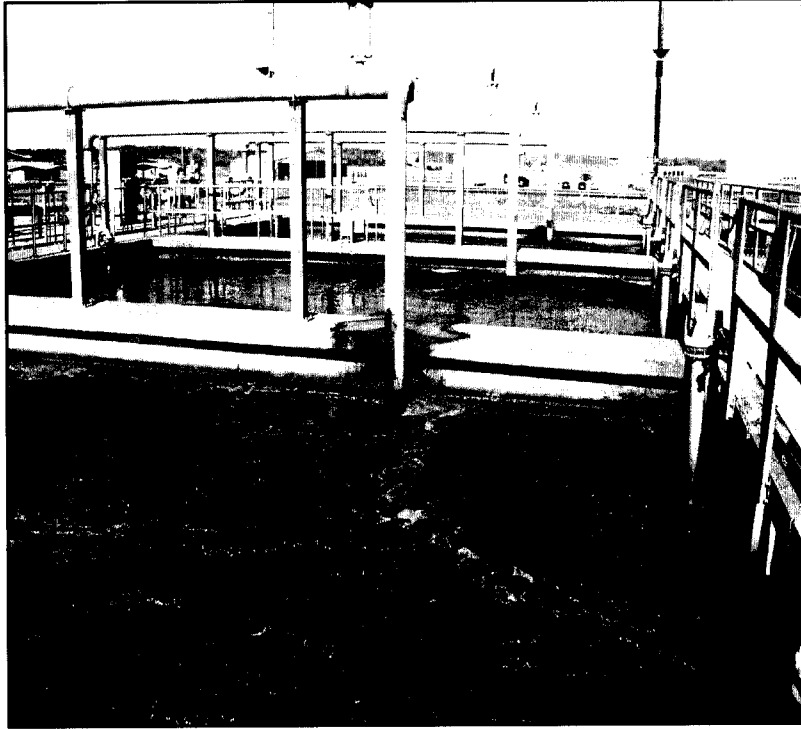


Photo 1114– 3/17/15
Pin hole leaks on the RAS piping
Facing north

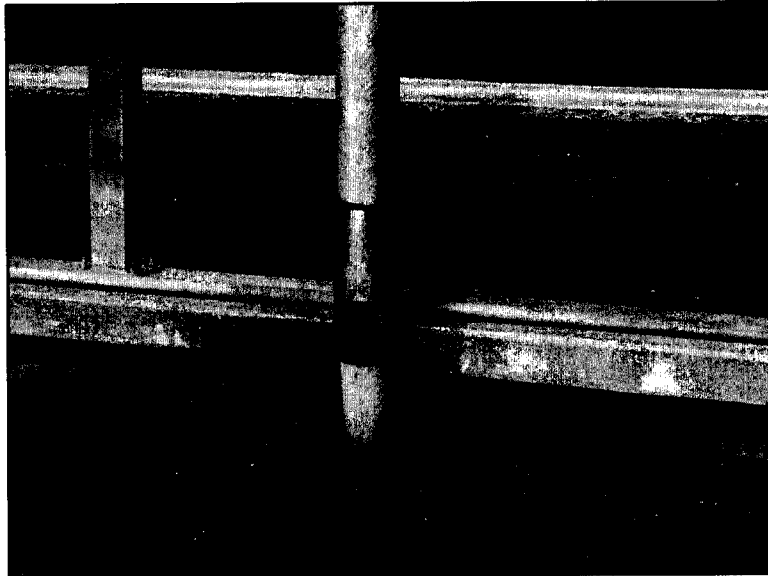


Photo 1115– 3/17/15
Temporary repairs on the RAS piping (background of
photo 1114) Facing north

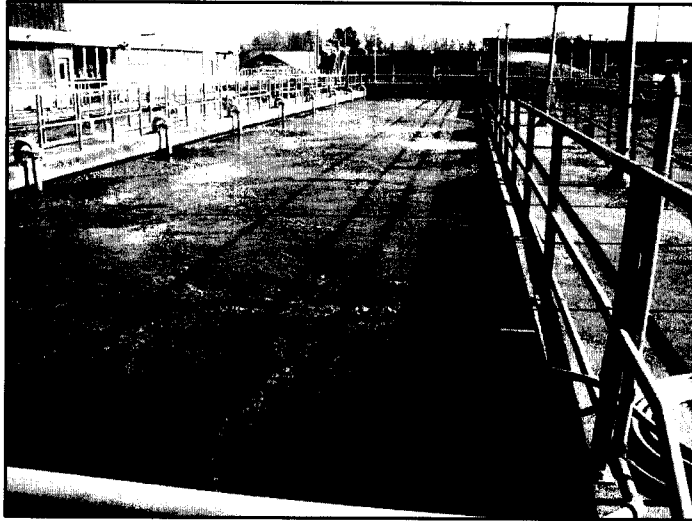


Photo 1110– 3/17/15
Aeration basin old plant
Facing east

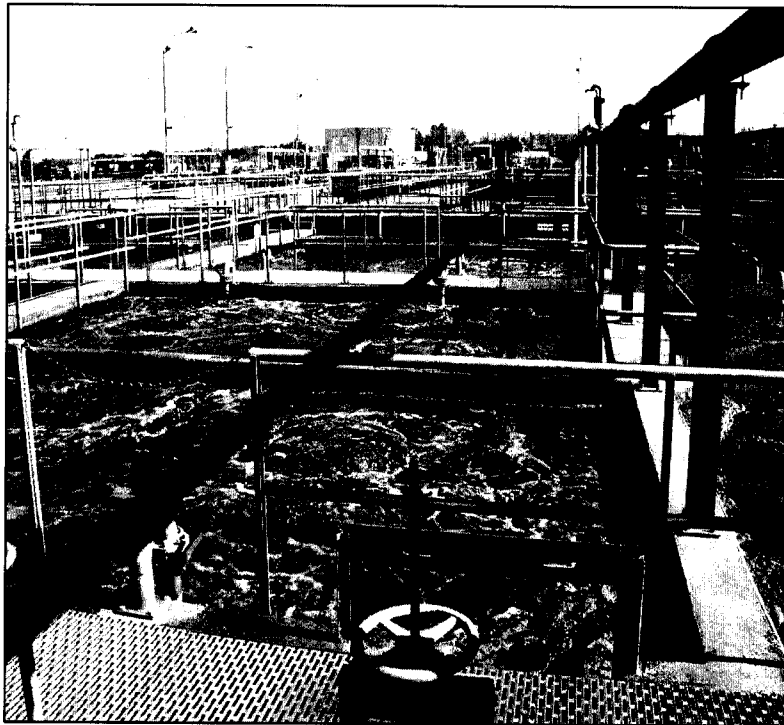


Photo 1117– 3/17/15
Aeration basin new plant
Facing east

Appendix B, Calculations Page

**“Operation of Wastewater Treatment Plants” Volume 1, Seventh Edition,
California State University, Sacramento, 2008 p.481 and 482 (calculations*)**

$$\text{*Sludge Volume Index} = \frac{(\text{settable solids, \%})(10,000)}{\text{MLSS, mg/l}}$$

$$\text{Old Plant} = 34 \% * 10,000/4200, \text{mg/l} = 81$$

$$\text{New Plant} = 65 \% * 10,000/4600, \text{mg/l} = 141$$

* Settable solids data obtained from facility.

$$\text{Aeration volume} = \text{Length} \times \text{Width} \times \text{Depth} \times 7.48 \text{ cu. feet/gallon} = \text{total gallons} \times \text{aeration units} = \text{total gallons of aeration.}$$

$$\text{Old Plant: aeration volume} = 150 \times 28 \times 14 = 58,800 \text{ cu ft.} \times 7.48 \text{ cu ft. / gallon} = 439,824 \text{ gallons} \times 4 \text{ aeration units} = \mathbf{1,759,296 \text{ total gallons.}}$$

$$\text{New Plant (first stage): aeration volume} = 47.4 \times 29.3 \times 15 = 20,832.3 \text{ cu ft.} \times 7.48 \text{ cu ft. / gallon} = 155,825.6 \text{ gallons} \times 6 \text{ aeration units} = \mathbf{934,953.62 \text{ total gallons.}}$$

$$\text{New Plant (second stage): aeration volume} = 75.1 \times 29.33 \times 15 = 33,040.3 \text{ cu ft.} \times 7.48 \text{ cu ft. / gallon} = 247,141.4 \text{ gallons} \times 6 \text{ aeration units} = \mathbf{1,482,848.4 \text{ total gallons.}}$$

* Aeration volume estimates obtained from blueprints and facility.

***Food to Microorganism ratio(simplified)**

$$\frac{\text{Food}}{\text{Microorganisms}} = \frac{\text{Flow(Q),mgd} * \text{CBOD,mg/l}}{\text{Volume aeration, mg} * \text{MLVSS, mg/l}}$$

$$\text{Old Plant} = 2.46 \text{ mgd} * 64 \text{ mg/l} / 1.76 \text{ mg} * 2700 \text{ mg/l} = 0.033$$

$$\text{New Plant (first stage)} = 8.46 \text{ mgd} * 59 \text{ mg/l} / 0.934 \text{ mg} * 1760 \text{ mg/l} = 0.30$$

* Aeration volume estimates obtained from blueprints and facility.

Solids in the Aeration Tank

$$\text{Aerator solids, lbs.} = (\text{tank volume, mg/l})(\text{MLSS, mg})(8.34 \text{ lbs./gallon})$$

$$\text{Old Plant aerator solids, lbs.} = 1.759 \text{ mg} \times 4100 \text{ mg/l} \times 8.34 \text{ lbs./gallon} = \mathbf{60,147.3 \text{ lbs.}}$$

$$\text{New Plant (first stage) aerator solids, lbs.} = .935 \text{ mg} \times 2400 \text{ mg/l} \times 8.34 \text{ lbs./gallon} = \mathbf{18,714.9 \text{ lbs.}}$$

$$\text{New Plant (2nd stage) aerator solids, lbs.} = 1.48 \text{ mg} \times 2400 \text{ mg/l} \times 8.34 \text{ lbs./gallon} = \mathbf{29,623.7 \text{ lbs.}}$$

Appendix C: Correspondence

MERIDIAN

CITY OF MERIDIAN

FILE COPY

A better longitude on life. February 6, 2014

Mayor:

PERCY BLAND, III
(601) 485-1927
FAX: (601) 485-1911

Council Members:

GEORGE M. THOMAS
Ward 1

K. DUSTIN MARKHAM
Ward 2

BARBARA HENSON
Ward 3

KIM HOUSTON
Ward 4

RANDY HAMMON
Ward 5

COUNCIL CLERK
(601) 485-1959
FAX: (601) 485-1913

CITY DEPARTMENTS:

Chief Administrative Officer:
(601) 485-1929
FAX: (601) 485-1911

Community Development:
(601) 485-1910
FAX: (601) 484-6813

Finance and Records:
(601) 485-1946
FAX: (601) 485-1979

Fire:
(601) 485-1922
FAX: (601) 485-1035

Homeland Security:
(601) 484-8890
FAX: (601) 484-6895

Parks and Recreation:
(601) 485-1802
FAX: (601) 485-1851

Police:
(601) 485-1841
FAX: (601) 484-6832

Public Works:
(601) 485-1920
FAX: (601) 485-1864

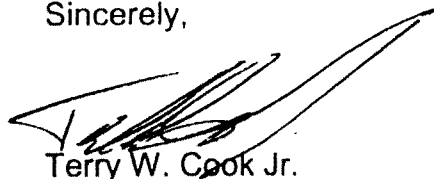
Mr. Bradley Crane
Mississippi Department of Environmental Quality
Environmental Permits Division
P.O. Box 2261
Jackson, MS 39225-2261

Dear Mr. Crane:

RE: East Meridian POTW
NPDES Permit # MS0055735
Lauderdale County

The East Meridian Wastewater Treatment Plant is no longer able to discharge to Sowashee Creek. The last time of discharge on permit MS0055735 was November 08 2013. During the rest of November and December the discharge pumps and piping that allowed for discharge to the creek were removed. The East Meridian plant can only internal discharge to Kemper (Coal Plant) or down to (Main) Meridian Wastewater Treatment plant to discharge into Sowashee under permit MS0020117. I am requesting that permit MS0055735 be terminated. If you have any questions, you may contact me at 601 485-1815.

Sincerely,



Terry W. Cook Jr.
Chief Utility Plant Operator, Wastewater Treatment Plant

cc: Percy Bland, Mayor
Mike McGrevey, CAO
Hugh Smith, Public Works Director



FILE COPY

STATE OF MISSISSIPPI
PHIL BRYANT
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
TRUDY D. FISHER, EXECUTIVE DIRECTOR

May 16, 2014

Mr. Terry Cook Jr.
East Meridian POTW
PO Box 1430
Meridian, Mississippi 39302-1430

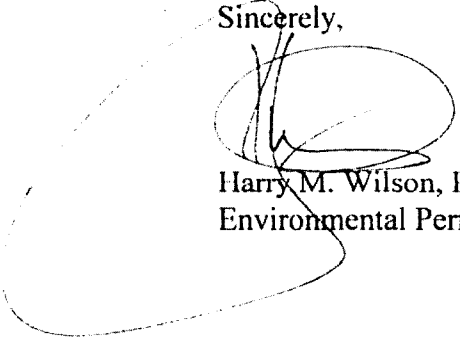
Dear Mr. Cook

Re: East Meridian POTW
Lauderdale County
Water Ref. No. MS0055735

The Environmental Permits Division is in receipt of your written request for termination of the above referenced environmental permit. It is our understanding that closure in accordance with the Closure Plan you submitted to our office is complete. Please be advised that as per the date of this letter, the above referenced environmental permit is hereby revoked.

If you have any questions regarding this matter or any future environmental permitting matters, please contact Jake Wallace at (601) 961-5171.

Sincerely,



Harry M. Wilson, P.E., DEE, Chief
Environmental Permits Division

cc:

13262 PER20090001

Appendix D
SESD Laboratory Report

Classical/Nutrient Analyses (CNA) and Total Metals
Final Analytical Report- 24 pages



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

April 22, 2015

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 15-0233, Meridian POTW Diagnostic Inspection
Compliance Monitoring

FROM: Jeffrey Hendel
ASB Inorganic Chemistry Section Chief

THRU: Danny France, Chief
Analytical Support Branch

TO: Bill Simpson

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
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Classical/Nutrient Analyses (CNA)

Ammonia/TKN	EPA 350.1 (Water)	ISO
Ammonia/TKN	EPA 351.2 (Water)	ISO
Cyanide	EPA 335.4 (Water)	ISO
Demand	SM 5210B (Water)	ISO
Nitrate and/or Nitrite	EPA 353.2 (Water)	ISO
Phosphorous	EPA 365.1 (Water)	ISO
Solids	USGS I-3765-85 (Water)	ISO

Total Metals (TMTL)

Total Metals	EPA 200.7 (Water)	ISO
Total Metals	EPA 200.8 (Water)	ISO



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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov, and provide a reason for holding samples beyond 60 days



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
ERB	E151203-01	Equipment Rinse Blank	3/17/15 11:10	3/19/15 14:55
M01inf	E151203-02	Municipal Proc. Wastewater	3/18/15 13:55	3/19/15 14:55
M02eff	E151203-03	Municipal Eff. Wastewater	3/18/15 11:30	3/19/15 14:55
M04pc	E151203-04	Municipal Proc. Wastewater	3/18/15 12:00	3/19/15 14:55
M05ab	E151203-05	Municipal Proc. Wastewater	3/17/15 14:20	3/19/15 14:55
M06pc	E151203-06	Municipal Proc. Wastewater	3/18/15 12:20	3/19/15 14:55
M07ab	E151203-07	Municipal Proc. Wastewater	3/17/15 14:25	3/19/15 14:55



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D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
A	The analyte was analyzed in replicate. Reported value is an average value of the replicates.
CR	Analyte concentration high in continuing calibration verification blank
J	The identification of the analyte is acceptable; the reported value is an estimate.
OM-2	Matrix Spike Recovery greater than method control limits
OR-1	MRL verification recovery less than lower control limits.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
NR	The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Total Metals

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: ERB

Lab ID: E151203-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 3/17/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100 U		ug/L	100	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	3/24/15 7:01	4/13/15 16:55	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	3/24/15 7:01	4/13/15 16:55	EPA 200.8
7440-39-3	Barium	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	3/24/15 7:01	4/13/15 16:55	EPA 200.8
7440-70-2	Calcium	250 U		ug/L	250	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	3/24/15 7:01	4/13/15 16:55	EPA 200.8
7439-95-4	Magnesium	250 U		ug/L	250	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7439-98-7	Molybdenum	10 U		ug/L	10	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-09-7	Potassium	1000 U		ug/L	1000	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	3/24/15 7:01	4/13/15 16:55	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-23-5	Sodium	1000 U		ug/L	1000	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-24-6	Strontium	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	3/24/15 7:01	4/13/15 16:55	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-62-2	Vanadium	5.0 U, J, QR-1		ug/L	5.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	3/24/15 6:59	3/27/15 11:29	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	3/24/15 6:59	3/27/15 11:29	EPA 200.7



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M01inf

Lab ID: E151203-02

Station ID: M01

Matrix: Municipal Proc. Wastewater

Date Collected: 3/18/15 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	11		mg/L	1.0	4/10/15 16:48	4/13/15 16:20	EPA 350.1
E17148461	Total Kjeldahl Nitrogen	15		mg/L	1.0	4/09/15 16:44	4/13/15 13:30	EPA 351.2
E1640614	BOD, 5 Day, Carbonaceous	100		mg/L	2.0	3/20/15 8:32	3/25/15 11:52	SM 5210B
E701177	Nitrate/Nitrite as N	0.075		mg/L	0.050	4/09/15 18:27	4/09/15 18:27	EPA 353.2
7723-14-0	Total Phosphorus	6.9		mg/L	1.0	3/31/15 13:43	4/01/15 15:23	EPA 365.1
E1642818	Total Suspended Solids	150		mg/L	4.0	3/24/15 13:45	3/24/15 23:18	USGS 1-3765-85



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Total Metals

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M02eff

Lab ID: E151203-03

Station ID: M02

Matrix: Municipal Eff. Wastewater

Date Collected: 3/18/15 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	150		ug/L	100	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	3/24/15 7:01	4/13/15 17:02	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/24/15 7:01	4/13/15 17:02	EPA 200.8
7440-39-3	Barium	22		ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	3/24/15 7:01	4/13/15 17:02	EPA 200.8
7440-70-2	Calcium	20000		ug/L	250	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7439-89-6	Iron	500		ug/L	100	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	3/24/15 7:01	4/13/15 17:02	EPA 200.8
7439-95-4	Magnesium	4100		ug/L	250	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7439-96-5	Manganese	25		ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7439-98-7	Molybdenum	10	U	ug/L	10	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-09-7	Potassium	5700		ug/L	1000	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	3/24/15 7:01	4/13/15 17:02	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-23-5	Sodium	29000		ug/L	1000	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-24-6	Strontium	120		ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	3/24/15 7:01	4/13/15 17:02	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-32-6	Titanium	5.0	U	ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-62-2	Vanadium	5.0	U, J, QR-1	ug/L	5.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	3/24/15 6:59	3/27/15 11:33	EPA 200.7
7440-66-6	Zinc	29		ug/L	10	3/24/15 6:59	3/27/15 11:33	EPA 200.7



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M02eff

Lab ID: E151203-03

Station ID: M02

Matrix: Municipal Eff. Wastewater

Date Collected: 3/18/15 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.28		mg/L	0.050	4/10/15 16:48	4/13/15 16:20	EPA 350.1
E17148461	Total Kjeldahl Nitrogen	1.4 J, QM-2		mg/L	0.050	4/09/15 16:44	4/13/15 13:30	EPA 351.2
57-12-5	Cyanide (total)	15 U		ug/L	15	3/23/15 11:00	3/24/15 9:46	EPA 335.4
E1640614	BOD, 5 Day, Carbonaceous	6.5 A		mg/L	2.0	3/20/15 8:32	3/25/15 11:52	SM 5210B
E701177	Nitrate/Nitrite as N	7.7		mg/L	1.0	4/09/15 18:27	4/09/15 18:27	EPA 353.2
7723-14-0	Total Phosphorus	1.7		mg/L	1.0	3/31/15 13:43	4/01/15 15:23	EPA 365.1
E1642818	Total Suspended Solids	10		mg/L	4.0	3/24/15 13:45	3/24/15 23:18	USGS I-3765-85



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D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M04pc

Lab ID: E151203-04

Station ID: M04

Matrix: Municipal Proc. Wastewater

Date Collected: 3/18/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	7.3		mg/L	1.0	4/10/15 16:48	4/13/15 16:20	EPA 350.1
E17148461	Total Kjeldahl Nitrogen	10 J, CR		mg/L	1.0	4/09/15 16:44	4/13/15 13:30	EPA 351.2
E1640606	BOD, 5 Day	59		mg/L	2.0	3/20/15 8:33	3/25/15 11:53	SM 5210B
E701177	Nitrate/Nitrite as N	0.050 U		mg/L	0.050	4/09/15 18:27	4/09/15 18:27	EPA 353.2
7723-14-0	Total Phosphorus	2.5		mg/L	1.0	3/31/15 13:43	4/01/15 15:23	EPA 365.1
E1642818	Total Suspended Solids	48		mg/L	4.0	3/24/15 13:45	3/24/15 23:18	USGS I-3765-85



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D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M05ab

Lab ID: E151203-05

Station ID: M05

Matrix: Municipal Proc. Wastewater

Date Collected: 3/17/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	2400		mg/L	4.0	3/24/15 13:45	3/24/15 23:18	USGS I-3765-85



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M06pc

Lab ID: E151203-06

Station ID: M06

Matrix: Municipal Proc. Wastewater

Date Collected: 3/18/15 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	6.7		mg/L	1.0	4/10/15 16:48	4/13/15 16:20	EPA 350.1
E17148461	Total Kjeldahl Nitrogen	11 J, CR		mg/L	1.0	4/09/15 16:44	4/13/15 13:30	EPA 351.2
E1640606	BOD, 5 Day	64		mg/L	2.0	3/20/15 8:33	3/25/15 11:53	SM 5210B
E701177	Nitrate/Nitrite as N	0.068		mg/L	0.050	4/09/15 18:27	4/09/15 18:27	EPA 353.2
7723-14-0	Total Phosphorus	2.3		mg/L	1.0	3/31/15 13:43	4/01/15 15:23	EPA 365.1
E1642818	Total Suspended Solids	57		mg/L	4.0	3/24/15 13:45	3/24/15 23:18	USGS I-3765-85



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses

Project: 15-0233, Meridian POTW Diagnostic Inspection

Sample ID: M07ab

Lab ID: E151203-07

Station ID: M07

Matrix: Municipal Proc. Wastewater

Date Collected: 3/17/15 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4100		mg/L	4.0	3/24/15 13:45	3/24/15 23:18	USGS I-3765-85



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503065 - M 200.2 Metals Water

Blank (1503065-BLK1)

Prepared: 03/24/15 Analyzed: 03/27/15

EPA 200.7

Aluminum	U	100	ug/L							U
Barium	U	5.0	"							U
Beryllium	U	3.0	"							U
Calcium	U	250	"							U
Chromium	U	5.0	"							U
Cobalt	U	5.0	"							U
Copper	U	10	"							U
Iron	U	100	"							U
Magnesium	U	250	"							U
Manganese	U	5.0	"							U
Molybdenum	U	10	"							U
Nickel	U	10	"							U
Potassium	U	1000	"							U
Silver	U	5.0	"							U
Sodium	U	1000	"							U
Strontium	U	5.0	"							U
Tin	U	15	"							U
Titanium	U	5.0	"							U
Vanadium	U	5.0	"							U
Yttrium	U	3.0	"							U
Zinc	U	10	"							U

LCS (1503065-BS1)

Prepared: 03/24/15 Analyzed: 03/27/15

EPA 200.7

Aluminum	5110.5	100	ug/L	5000.0	102	85-115
Barium	197.37	5.0	"	200.00	98.7	85-115
Beryllium	50.729	3.0	"	50.000	101	85-115
Calcium	5161.0	250	"	5000.0	103	85-115
Chromium	204.65	5.0	"	200.00	102	85-115
Cobalt	99.649	5.0	"	100.00	99.6	85-115
Copper	98.090	10	"	100.00	98.1	85-115
Iron	5387.2	100	"	5000.0	108	85-115
Magnesium	5348.8	250	"	5000.0	107	85-115
Manganese	533.86	5.0	"	500.00	107	85-115
Molybdenum	103.67	10	"	100.00	104	85-115
Nickel	196.84	10	"	200.00	98.4	85-115
Potassium	9823.9	1000	"	10000	98.2	85-115
Silver	92.787	5.0	"	100.00	92.8	85-115
Sodium	9854.4	1000	"	10000	98.5	85-115



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503065 - M 200.2 Metals Water

LCS (1503065-BS1)

Prepared: 03/24/15 Analyzed: 03/27/15

Strontium	98.489	5.0	ug/L	100.00		98.5	85-115			
Tin	104.58	15	"	100.00		105	85-115			
Titanium	101.39	5.0	"	100.00		101	85-115			
Vanadium	102.84	5.0	"	100.00		103	85-115			
Yttrium	100.93	3.0	"	100.00		101	85-115			
Zinc	203.96	10	"	200.00		102	85-115			

Matrix Spike (1503065-MS1)

Source: E151203-03

Prepared: 03/24/15 Analyzed: 03/27/15

EPA 200.7

Aluminum	5391.3	100	ug/L	5000.0	151.25	105	70-130			
Barium	223.75	5.0	"	200.00	21.881	101	70-130			
Beryllium	52.422	3.0	"	50.000	U	105	70-130			
Calcium	25722	250	"	5000.0	19531	124	70-130			
Chromium	207.56	5.0	"	200.00	U	104	70-130			
Cobalt	102.33	5.0	"	100.00	U	102	70-130			
Copper	104.19	10	"	100.00	U	104	70-130			
Iron	5998.6	100	"	5000.0	498.37	110	70-130			
Magnesium	9552.8	250	"	5000.0	4054.3	110	70-130			
Manganese	567.46	5.0	"	500.00	25.431	108	70-130			
Molybdenum	107.42	10	"	100.00	1.6791	106	70-130			
Nickel	200.89	10	"	200.00	1.5894	99.7	70-130			
Potassium	16174	1000	"	10000	5706.0	105	70-130			
Silver	94.323	5.0	"	100.00	U	94.3	70-130			
Sodium	40446	1000	"	10000	29343	111	70-130			
Strontium	222.60	5.0	"	100.00	119.54	103	70-130			
Tin	108.52	15	"	100.00	1.9441	107	70-130			
Titanium	102.53	5.0	"	100.00	1.3243	101	70-130			
Vanadium	106.43	5.0	"	100.00	U	106	70-130			
Yttrium	101.60	3.0	"	100.00	U	102	70-130			
Zinc	238.62	10	"	200.00	28.597	105	70-130			

XM-1



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Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503065 - M 200.2 Metals Water

Matrix Spike Dup (1503065-MSD1)

Source: E151203-03

Prepared: 03/24/15 Analyzed: 03/27/15

EPA 200.7

Aluminum	5456.2	100	ug/L	5000.0	151.25	106	70-130	1.20	20	
Barium	222.93	5.0	"	200.00	21.881	101	70-130	0.368	20	
Beryllium	52.115	3.0	"	50.000	U	104	70-130	0.587	20	
Calcium	25350	250	"	5000.0	19531	116	70-130	1.45	20	XM-1
Chromium	203.04	5.0	"	200.00	U	102	70-130	2.20	20	
Cobalt	101.22	5.0	"	100.00	U	101	70-130	1.10	20	
Copper	101.93	10	"	100.00	U	102	70-130	2.19	20	
Iron	6104.5	100	"	5000.0	498.37	112	70-130	1.75	20	
Magnesium	9410.1	250	"	5000.0	4054.3	107	70-130	1.50	20	
Manganese	576.34	5.0	"	500.00	25.431	110	70-130	1.55	20	
Molybdenum	106.40	10	"	100.00	1.6791	105	70-130	0.956	20	
Nickel	197.03	10	"	200.00	1.5894	97.7	70-130	1.94	20	
Potassium	16340	1000	"	10000	5706.0	106	70-130	1.02	20	
Silver	92.119	5.0	"	100.00	U	92.1	70-130	2.36	20	
Sodium	39734	1000	"	10000	29343	104	70-130	1.78	20	
Strontium	219.22	5.0	"	100.00	119.54	99.7	70-130	1.53	20	
Tin	107.42	15	"	100.00	1.9441	105	70-130	1.03	20	
Titanium	104.74	5.0	"	100.00	1.3243	103	70-130	2.13	20	
Vanadium	105.06	5.0	"	100.00	U	105	70-130	1.30	20	
Yttrium	99.644	3.0	"	100.00	U	99.6	70-130	1.94	20	
Zinc	233.16	10	"	200.00	28.597	102	70-130	2.32	20	

MRL Verification (1503065-PS1)

Prepared: 03/24/15 Analyzed: 03/27/15

EPA 200.7

Aluminum	107.88	100	ug/L	100.00		108	70-130			MRL-1
Barium	4.7969	5.0	"	5.0000		95.9	70-130			MRL-1, U
Beryllium	3.0286	3.0	"	3.0000		101	70-130			MRL-1
Calcium	260.33	250	"	250.00		104	70-130			MRL-1
Chromium	4.9693	5.0	"	5.0000		99.4	70-130			MRL-1, U
Cobalt	4.9881	5.0	"	5.0000		99.8	70-130			MRL-1, U
Copper	9.3940	10	"	10.000		93.9	70-130			MRL-1, U
Iron	106.65	100	"	100.00		107	70-130			MRL-1
Magnesium	264.61	250	"	250.00		106	70-130			MRL-1
Manganese	5.1134	5.0	"	5.0000		102	70-130			MRL-1
Molybdenum	10.501	10	"	10.000		105	70-130			MRL-1
Nickel	10.179	10	"	10.000		102	70-130			MRL-1



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Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503065 - M 200.2 Metals Water

MRL Verification (1503065-PS1)					Prepared: 03/24/15 Analyzed: 03/27/15					
Potassium	951.85	1000	ug/L	1000.0		95.2	70-130			MRL-1, U
Silver	4.2691	5.0	"	5.0000		85.4	70-130			MRL-1, U
Sodium	963.83	1000	"	1000.0		96.4	70-130			MRL-1, U
Strontium	4.9657	5.0	"	5.0000		99.3	70-130			MRL-1, U
Tin	14.911	15	"	15.000		99.4	70-130			MRL-1, U
Titanium	4.4775	5.0	"	5.0000		89.6	70-130			MRL-1, U
Vanadium	2.1608	5.0	"	5.0000		43.2	70-130			QR-1, MRL-1, U
Yttrium	2.9969	3.0	"	3.0000		99.9	70-130			MRL-1, U
Zinc	10.515	10	"	10.000		105	70-130			MRL-1

Batch 1503066 - M 200.2 Metals Water

Blank (1503066-BLK1)				Prepared: 03/24/15 Analyzed: 04/13/15	
EPA 200.8					
Antimony	U	1.0	ug/L		U
Arsenic	U	1.0	"		U
Beryllium	U	0.50	"		U
Cadmium	U	0.50	"		U
Lead	U	1.0	"		U
Selenium	U	2.0	"		U
Thallium	U	1.0	"		U

LCS (1503066-BS1)				Prepared: 03/24/15 Analyzed: 04/13/15		
EPA 200.8						
Antimony	196.28	10	ug/L	200.00	98.1	85-115
Arsenic	206.76	10	"	200.00	103	85-115
Beryllium	50.492	5.0	"	50.000	101	85-115
Cadmium	51.197	5.0	"	50.000	102	85-115
Lead	213.71	10	"	200.00	107	85-115
Selenium	220.19	20	"	200.00	110	85-115
Thallium	207.68	10	"	200.00	104	85-115



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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503066 - M 200.2 Metals Water

Matrix Spike (1503066-MS1)

Source: E151203-03

Prepared: 03/24/15 Analyzed: 04/13/15

EPA 200.8

Antimony	196.62	10	ug/L	200.00	0.18298	98.2	70-130
Arsenic	203.08	10	"	200.00	U	102	70-130
Beryllium	49.298	5.0	"	50.000	U	98.6	70-130
Cadmium	49.742	5.0	"	50.000	U	99.5	70-130
Lead	215.86	10	"	200.00	0.40407	108	70-130
Selenium	215.01	20	"	200.00	U	108	70-130
Thallium	210.30	10	"	200.00	U	105	70-130

Matrix Spike Dup (1503066-MSD1)

Source: E151203-03

Prepared: 03/24/15 Analyzed: 04/13/15

EPA 200.8

Antimony	198.86	10	ug/L	200.00	0.18298	99.3	70-130	1.13	20
Arsenic	203.25	10	"	200.00	U	102	70-130	0.0853	20
Beryllium	47.903	5.0	"	50.000	U	95.8	70-130	2.87	20
Cadmium	49.620	5.0	"	50.000	U	99.2	70-130	0.246	20
Lead	212.34	10	"	200.00	0.40407	106	70-130	1.64	20
Selenium	216.05	20	"	200.00	U	108	70-130	0.481	20
Thallium	209.80	10	"	200.00	U	105	70-130	0.240	20

MRL Verification (1503066-PS1)

Prepared: 03/24/15 Analyzed: 04/13/15

EPA 200.8

Antimony	0.49953	1.0	ug/L	0.50000		99.9	65-135		MRL-1, U
Arsenic	0.90814	1.0	"	1.0000		90.8	65-135		MRL-1, U
Beryllium	0.48852	0.50	"	0.50000		97.7	65-135		MRL-1, U
Cadmium	0.51938	0.50	"	0.50000		104	65-135		MRL-1
Lead	1.0432	1.0	"	1.0000		104	65-135		MRL-1
Selenium	1.9968	2.0	"	2.0000		99.8	65-135		MRL-1, U
Thallium	0.52103	1.0	"	0.50000		104	65-135		MRL-1, U



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Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1503059 - C SM5210 BOD										
Blank (1503059-BLK1)				Prepared: 03/20/15 Analyzed: 03/25/15						
SM 5210B										
BOD, 5 Day	U	2.0	mg/L							U
LCS (1503059-BS1)				Prepared: 03/20/15 Analyzed: 03/25/15						
SM 5210B										
BOD, 5 Day	209.00	2.0	mg/L	198.00		106	79-133			
Duplicate (1503059-DUP1)				Source: E151203-04		Prepared: 03/20/15 Analyzed: 03/25/15				
SM 5210B										
BOD, 5 Day	59.800	2.0	mg/L		59.000			1.35	20	
Batch 1503060 - C SM5210 BOD										
Blank (1503060-BLK1)				Prepared: 03/20/15 Analyzed: 03/25/15						
SM 5210B										
BOD, 5 Day, Carbonaceous	U	2.0	mg/L							U
LCS (1503060-BS1)				Prepared: 03/20/15 Analyzed: 03/25/15						
SM 5210B										
BOD, 5 Day, Carbonaceous	161.50	2.0	mg/L	170.00		95.0	81-119			
Duplicate (1503060-DUP1)				Source: E151203-02		Prepared: 03/20/15 Analyzed: 03/25/15				
SM 5210B										
BOD, 5 Day, Carbonaceous	101.00	2.0	mg/L		102.60			1.57	20	
Batch 1503063 - C 335 Cyanide										
Blank (1503063-BLK1)				Prepared: 03/23/15 Analyzed: 03/24/15						
EPA 335.4										
Cyanide (total)	U	15	ug/L							U
LCS (1503063-BS1)				Prepared: 03/23/15 Analyzed: 03/24/15						
EPA 335.4										
Cyanide (total)	101.60	15	ug/L	100.10		101	90-110			



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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503063 - C 335 Cyanide

Matrix Spike (1503063-MS1)

Source: E151203-03

Prepared: 03/23/15 Analyzed: 03/24/15

EPA 335.4

Cyanide (total)	99.887	15	ug/L	100.10	U	99.8	90-110			
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Matrix Spike Dup (1503063-MSD1)

Source: E151203-03

Prepared: 03/23/15 Analyzed: 03/24/15

EPA 335.4

Cyanide (total)	102.83	15	ug/L	100.10	U	103	90-110	2.90	20	
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MRL Verification (1503063-PS1)

Prepared: 03/23/15 Analyzed: 03/24/15

EPA 335.4

Cyanide (total)	14.744	15	ug/L	15.000		98.3	70-130			MRL-1, U
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Batch 1503070 - C 2540 Solids

Blank (1503070-BLK1)

Prepared & Analyzed: 03/24/15

USGS I-3765-85

Total Suspended Solids	U	4.0	mg/L							U
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LCS (1503070-BS1)

Prepared & Analyzed: 03/24/15

USGS I-3765-85

Total Suspended Solids	99.600	4.0	mg/L	100.00		99.6	90-110			
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LCS Dup (1503070-BSD1)

Prepared & Analyzed: 03/24/15

USGS I-3765-85

Total Suspended Solids	100.20	4.0	mg/L	100.00		100	90-110	0.601	10	
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Duplicate (1503070-DUP1)

Source: E151203-05

Prepared & Analyzed: 03/24/15

USGS I-3765-85

Total Suspended Solids	2450.0	4.0	mg/L		2446.0			0.163	10	
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MRL Verification (1503070-PS1)

Prepared & Analyzed: 03/24/15

USGS I-3765-85

Total Suspended Solids	4.0000	4.0	mg/L	5.0000		80.0	68-128			MRL-1
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Batch 1503101 - C 365.1 TPhos

Blank (1503101-BLK1)

Prepared: 03/31/15 Analyzed: 04/01/15

EPA 365.1



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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1503101 - C 365.1 TPhos										
Blank (1503101-BLK1)				Prepared: 03/31/15 Analyzed: 04/01/15						
Total Phosphorus	U	0.010	mg/L							U
Blank (1503101-BLK2)				Prepared: 03/31/15 Analyzed: 04/01/15						
EPA 365.1										
Total Phosphorus	U	0.010	mg/L							U
LCS (1503101-BS1)				Prepared: 03/31/15 Analyzed: 04/01/15						
EPA 365.1										
Total Phosphorus	0.26170	0.010	mg/L	0.26700		98.0	90-110			
LCS (1503101-BS2)				Prepared: 03/31/15 Analyzed: 04/01/15						
EPA 365.1										
Total Phosphorus	0.26970	0.010	mg/L	0.26700		101	90-110			
Matrix Spike (1503101-MS1)				Source: E151005-09		Prepared: 03/31/15 Analyzed: 04/01/15				
EPA 365.1										
Total Phosphorus	133.18	2.0	mg/L	0.50000	142.28	-1820	90-110			XM-1
Matrix Spike (1503101-MS2)				Source: E151203-06		Prepared: 03/31/15 Analyzed: 04/01/15				
EPA 365.1										
Total Phosphorus	2.8000	1.0	mg/L	0.50000	2.3000	100	90-110			XM-1
Matrix Spike Dup (1503101-MSD1)				Source: E151005-09		Prepared: 03/31/15 Analyzed: 04/01/15				
EPA 365.1										
Total Phosphorus	132.76	2.0	mg/L	0.50000	142.28	-1900	90-110	0.316	10	XM-1
Matrix Spike Dup (1503101-MSD2)				Source: E151203-06		Prepared: 03/31/15 Analyzed: 04/01/15				
EPA 365.1										
Total Phosphorus	2.8800	1.0	mg/L	0.50000	2.3000	116	90-110	2.82	10	XM-1
MRL Verification (1503101-PS1)				Prepared: 03/31/15 Analyzed: 04/01/15						
EPA 365.1										
Total Phosphorus	0.0090000	0.010	mg/L	0.010000		90.0	70-130			MRL-1, U
MRL Verification (1503101-PS2)				Prepared: 03/31/15 Analyzed: 04/01/15						
EPA 365.1										



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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1503101 - C 365.1 TPhos

MRL Verification (1503101-PS2)

Prepared: 03/31/15 Analyzed: 04/01/15

Total Phosphorus	0.0077000	0.010	mg/L	0.010000		77.0	70-130			MRL-1, U
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Batch 1504034 - C 353.2 NO3-NO2

Blank (1504034-BLK1)

Prepared & Analyzed: 04/09/15

EPA 353.2

Nitrate/Nitrite as N	U	0.050	mg/L							U
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LCS (1504034-BS1)

Prepared & Analyzed: 04/09/15

EPA 353.2

Nitrate/Nitrite as N	0.50130	0.050	mg/L	0.50000		100	90-110			
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Matrix Spike (1504034-MS1)

Source: E151203-06

Prepared & Analyzed: 04/09/15

EPA 353.2

Nitrate/Nitrite as N	0.56720	0.050	mg/L	0.50000	0.068200	99.8	90-110			
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Matrix Spike Dup (1504034-MSD1)

Source: E151203-06

Prepared & Analyzed: 04/09/15

EPA 353.2

Nitrate/Nitrite as N	0.58180	0.050	mg/L	0.50000	0.068200	103	90-110	2.54	10	
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MRL Verification (1504034-PS1)

Prepared & Analyzed: 04/09/15

EPA 353.2

Nitrate/Nitrite as N	0.053300	0.050	mg/L	0.050000		107	70-130			MRL-1
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Batch 1504037 - C 351.2 TKN

Blank (1504037-BLK1)

Prepared: 04/09/15 Analyzed: 04/13/15

EPA 351.2

Total Kjeldahl Nitrogen	U	0.050	mg/L							U
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LCS (1504037-BS1)

Prepared: 04/09/15 Analyzed: 04/13/15

EPA 351.2

Total Kjeldahl Nitrogen	1.6985	0.050	mg/L	1.7200		98.8	90-110			
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1504037 - C 351.2 TKN										
Matrix Spike (1504037-MS1)		Source: E151203-03			Prepared: 04/09/15 Analyzed: 04/13/15					
EPA 351.2										
Total Kjeldahl Nitrogen	2.3740	0.050	mg/L	1.0000	1.4260	94.8	90-110			
Matrix Spike (1504037-MS2)		Source: E151409-02			Prepared: 04/09/15 Analyzed: 04/13/15					
EPA 351.2										
Total Kjeldahl Nitrogen	19.814	1.0	mg/L	1.0000	19.248	56.6	90-110			XM-1
Matrix Spike Dup (1504037-MSD1)		Source: E151203-03			Prepared: 04/09/15 Analyzed: 04/13/15					
EPA 351.2										
Total Kjeldahl Nitrogen	2.5590	0.050	mg/L	1.0000	1.4260	113	90-110	7.50	20	QM-2
Matrix Spike Dup (1504037-MSD2)		Source: E151409-02			Prepared: 04/09/15 Analyzed: 04/13/15					
EPA 351.2										
Total Kjeldahl Nitrogen	21.376	1.0	mg/L	1.0000	19.248	213	90-110	7.58	20	XM-1
MRL Verification (1504037-PS1)				Prepared: 04/09/15 Analyzed: 04/13/15						
EPA 351.2										
Total Kjeldahl Nitrogen	0.031000	0.050	mg/L	0.050000		62.0	70-130			MRL-1, QR-1, U
Batch 1504041 - C 350.1 Ammonia										
Blank (1504041-BLK1)				Prepared: 04/10/15 Analyzed: 04/13/15						
EPA 350.1										
Ammonia as N	U	0.050	mg/L							U
LCS (1504041-BS1)				Prepared: 04/10/15 Analyzed: 04/13/15						
EPA 350.1										
Ammonia as N	0.98100	0.050	mg/L	1.0000		98.1	90-110			
Matrix Spike (1504041-MS1)		Source: E151203-02			Prepared: 04/10/15 Analyzed: 04/13/15					
EPA 350.1										
Ammonia as N	11.520	1.0	mg/L	1.0000	10.560	96.0	90-110			XM-1
Matrix Spike Dup (1504041-MSD1)		Source: E151203-02			Prepared: 04/10/15 Analyzed: 04/13/15					
EPA 350.1										
Ammonia as N	11.340	1.0	mg/L	1.0000	10.560	78.0	90-110	1.57	10	XM-1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1504041 - C 350.1 Ammonia

MRL Verification (1504041-PS1)

Prepared: 04/10/15 Analyzed: 04/13/15

EPA 350.1

Ammonia as N	0.064000	0.050	mg/L	0.050000		128	70-130			MRL-1
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 15-0233

Project: 15-0233, Meridian POTW Diagnostic Inspection - Reported by Jeffrey Hendel

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-1	MRL verification for Potable Water matrix (Drinking Water)
QM-2	Matrix Spike Recovery greater than method control limits
QR-1	MRL verification recovery less than lower control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria

END OF REPORT

Armstrong, Kathy

From: Janovitz, Sara
Sent: Tuesday, June 28, 2016 9:45 AM
To: Baschon, Carol; Glaze, Rich; Sayre, Dennis
Subject: Sign In Sheet
Attachments: Sign In Sheet 6.27.2016.pdf

Attached is the sign in sheet from yesterday.

Thanks,

Sara Schiff Janovitz

Environmental Engineer
NPDES Permitting and Enforcement Branch
US EPA - Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
P: (404) 562-9870
F: (404) 562-9729

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June 27, 2016

Email

Armstrong, Kathy

From: HughSmith@meridianms.org
Sent: Thursday, July 31, 2014 5:30 PM
To: Janovitz, Sara; Horton, Matthew
Subject: RE: Supplemental SSO list and Cover Letter
Attachments: DOC073114EPA SSO 2.pdf; Supplemental SSO List - City of Meridian.xlsx

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Record Saved - Shared

See attached cover letter and supplemental information

Thank You,

HS

From: "Schiff, Sara"
To: "HughSmith@meridianms.org"
Cc: "michael@gogganslaw.com" , "Floyd, Tanya" , "Sayre, Dennis"
Date: 07/29/2014 01:18 PM
Subject: RE: EPA Cover letter Document

Hugh-

Thanks for sending the cover letter—it answered some initial questions I had after reviewing the attachments emailed to me last week. The City's response states that there are inconsistencies in the SSO data and that the City will submit a revised SSO list by July 31, 2014. Will this list be finished and emailed to me by this Thursday? Just as a reminder, a complete response to the Information Request was due on July 18, 2014, and anything not completely answered by July 18m 20104, could be a violation of Section 308 of the Clean Water Act.

Please let me know if you have any questions.

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [<mailto:HughSmith@meridianms.org>]
Sent: Tuesday, July 29, 2014 12:57 PM
To: Schiff, Sara
Subject: Fw: EPA Cover letter Document

----- Forwarded by Hugh Smith/COM on 07/29/2014 11:56 AM -----

From: Barbara Kidd/COM
To: Hugh Smith/COM@MeridianMS.org
Date: 07/18/2014 05:05 PM
Subject: Safe Water Document

The pages were scanned in back to front therefore, page 1 is actually page six.

My best,
BarbaraK

MERIDIAN

CITY OF MERIDIAN

A better longitude on life.

July 31, 2014

Mayor:

PERCY BLAND, III
(601) 485-1927
FAX: (601) 485-1911

Council Members:

GEORGE M THOMAS
Ward 1

K. DUSTIN MARKHAM
Ward 2

BARBARA HENSON
Ward 3

KIM HOUSTON
Ward 4

RANDY HAMMON
Ward 5

COUNCIL CLERK
(601) 485-1959
FAX: (601) 485-1913

Sara Schiff
Environmental Engineer
Clean Water Enforcement Branch
US EPA – Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

Dear Ms. Schiff:

While attempting to compile a comprehensive listing of SSO's, which was included in our response letter dated July 18, 2014, discrepancies were identified among the City's list of SSO's, the Mississippi Department of Environmental Quality's (MDEQ) list of SSO's, and the SSO Reporting Forms provided to MDEQ. The City of Meridian is committed to providing your agency with the most accurate data possible from the three sources of information referenced.

CITY DEPARTMENTS:

Chief Administrative Officer
(601) 485-1929
FAX: (601) 485-1911

Community Development:
(601) 485-1910
FAX: (601) 484-6813

Finance and Records:
(601) 485-1946
FAX: (601) 485-1979

Fire:
(601) 485-1822
FAX: (601) 485-1035

Homeland Security:
(601) 484-6890
FAX: (601) 484-6895

Parks and Recreation:
(601) 485-1802
FAX: (601) 485-1851

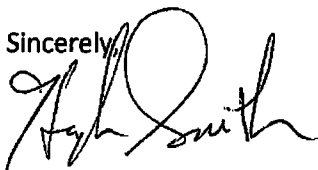
Police:
(601) 485-1841
FAX: (601) 484-6832

Public Works:
(601) 485-1920
FAX: (601) 485-1864

Therefore, subsequent to the submittal of our July 18th response letter, we continued an exhaustive effort to collect and compile all available SSO data in order to generate a true comprehensive finalized listing of SSO events. As indicated in our July 18th response letter, please accept the attached spreadsheet as the complete and final list of SSO occurrences from September, 2008 through May 6, 2014.

We look forward to the opportunity to convene face to face and discuss the most appropriate approach for improving our city's wastewater system.

Sincerely,



Hugh Smith
Public Works Director

HS/ph

Attachment



City of Meridian, Mississippi
List of SSOs from September 2008 to May 6, 2014

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/12/2009			NOT AVAILABLE	12/29/2008	NOT AVAILABLE	1/12/2009	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	15,000,000	DUE TO CONTINUOUS RAINY DAYS, PLANT REACHED MAXIMUM TREATMENT CAPACITY SO EXCESS WAS DIVERTED TO EQ BASINS	ONCE THE INCLEMENT WEATHER SUBSIDED, INFLUENT FLOW DECREASED AND PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	RECORDED FROM NPDES EXCEEDANCE LETTER TO MDEQ
3/20/2009	✓		6AM	3/16/2009	4PM	3/16/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	6,500	POWER OUTAGE AT WASTEWATER TREATMENT PLANT & RAINFALL OF 2 INCHES	MS POWER HAD ELECTRICAL COMPONENTS SHIPPED OVERNIGHT TO CORRECT PROBLEM	PARTS INSTALLED BY MS POWER	
3/23/2009	✓		3PM	3/18/2009	6PM	3/20/2009	WEST OF 29TH AVENUE & NORTH OF ST. PAUL STREET, IN THE WOODS	HOLE IN PIPE	SOWASHEE CREEK	12,000	HOLE IN PIPE, COLLAPSED PIPE	DEBRIS REMOVED FROM PIPE WITH FLUSH TRUCK, CHLORINE TABLETS ADDED TO OVERFLOW	COLLAPSED PIPE REPAIRED	
5/4/2009	✓		NOT AVAILABLE	3/16/2009	NOT AVAILABLE	4/7/2009	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	160,000	I&I, FAILURE OF PIPE DOWN STREET THAT BLOCKED & RESTRICTED FLOW - 4.5 INCHES OF RAINFALL	MISCELLANEOUS LINE REPAIRS ON 24" PIPE. CREW CLEANED UP DEBRIS AND LIME WAS SPREAD OVER ENTIRE AREA	PLAN TO UPGRADE 24" LINE TO 36" LINE TO PREVENT FUTURE SSOs.	CITY OF MERIDIAN BYPASS REPORT INCLUDED SUPPLEMENTAL REPORT OF EVENT
INFO NOT AVAILABLE	✓		10:30AM	5/15/2009	2PM	5/15/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	85,000	EXCESSIVE RAINFALL - 3.5 INCHES TO 4 INCHES	DEBRIS REMOVED AND DISINFECTED AREA	NO INFORMATION PROVIDED	
1/14/2010	✓		10:30AM	12/18/2009	2PM	12/21/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	170,000	EXCESSIVE RAINFALL - 3.5 INCHES TO 4 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
1/8/2010			NOT AVAILABLE	12/17/2009	NOT AVAILABLE	1/8/2010	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	19,430,000	DUE TO CONTINUOUS RAINY DAYS AND PORTION OF MAIN PLANT BEING OFFLINE, PLANT WAS FORCED TO DIVERTED PORTION OF NORMAL FLOW TO EQ BASINS	ONCE PORTION OF MAIN PLANT WAS BROUGHT BACK ONLINE, PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	RECORDED FROM NPDES EXCEEDANCE LETTER TO MDEQ
1/19/2010	✓		12PM	1/13/2010	10AM	1/14/2010	FRED CLAYTON ROAD	PRESSURE LINE	LOST HORSE CREEK	290,000	BROKEN LINE	REPAIRED LINE	REPAIRED LINE	
1/24/2010	✓		NOT AVAILABLE	2/21/2010	NOT AVAILABLE	2/24/2010	4001 NEWELL ROAD	MANHOLE	SOWASHEE CREEK	170,000	GREASE AND ROOTS IN MANHOLE, 3+ INCHES OF RAIN AND 4 INCHES OF SNOW	FLUSHED LINE	CLEANED ROOTS FROM MANHOLE AND REPAIRED PIPE	
2/22/2010			NOT AVAILABLE	FEB. 2010	NOT AVAILABLE	2/22/2010	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	21,000,000	PART OF MAIN PLANT OFFLINE DUE TO PUMP REPAIRS, RESULTING IN DIVERSION TO EQ BASINS	ONCE PORTION OF MAIN PLANT BROUGHT BACK ONLINE FOLLOWING INSTALLATION OF NEW MOTOR ON PRIMARY SLUDGE PUMPS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	RECORDED FROM NPDES EXCEEDANCE LETTER TO MDEQ
3/15/2010	✓		MIDNIGHT	3/10/2010	NOT AVAILABLE	NOT AVAILABLE	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	75,000	EXCESSIVE RAINFALL - 2+ INCHES	CITY CREWS WORKING ON PROBLEM AT CHIP MILL	PLANS ARE BEING PUT IN PLACE TO INCREASE CAPACITY IN LINE	
3/23/2010	✓		MIDNIGHT	3/10/2010	9:45AM	3/16/2010	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	95,000	EXCESSIVE RAINFALL - 2+ INCHES	CITY CREWS WORKING ON PROBLEM AT CHIP MILL	PLANS ARE BEING PUT IN PLACE TO INCREASE CAPACITY IN LINE	
3/15/2010	✓		2:33PM	3/12/2010	7PM	3/15/2010	HWY 45 & HWY 39	RAISED MANHOLE	SOWASHEE CREEK	200,000	HIGH RAINFALL & MANHOLE INFILTRATION	REPAIR MANHOLE	CITY CREWS WORKING ON CHIPMILL PROBLEM	
3/24/2010			11AM	3/24/2010	2PM	3/24/2010	SOWASHEE STREET (BEHIND MISSISSIPPI MUSIC)	MANHOLE	TRIBUTARY OF SOWASHEE CREEK	NO INFORMATION AVAILABLE	NO INFORMATION AVAILABLE	CITY CREWS COLLECTED DEBRIS, EXCAVATED AFFECTED SOIL, AND LIMED IMPACTED AREA	NO INFORMATION PROVIDED	INFORMATION RECORDED FROM MARCH 25, 2010 MEMORANDUM FROM MDEQ

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
MAR. 2010			NOT AVAILABLE	MAR. 2010	NOT AVAILABLE	MAR. 2010	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	51,050,000	DUE TO CONTINUOUS RAINY DAYS AND PORTION OF MAIN PLANT BEING OFFLINE, PLANT WAS FORCED TO DIVERTED PORTION OF FLOW TO EQ BASINS	ONCE PORTION OF MAIN PLANT WAS BROUGHT BACK ONLINE, PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	
11/24/2010	✓	✓	7AM	11/24/2010	10:30AM	11/24/2010	26TH STREET/2606 EDGEWOOD DRIVE	MANHOLE	SOWASHEE CREEK	80,000	ROOTS IN MANHOLE	FLUSH TRUCK 'SHOT LINE' & OPEN IT	CREW CUT ROOTS OUT OF MANHOLE	FULL REPORT INCLUDES PICTURES
1/13/2011	✓		3AM	1/7/2011	8AM	1/7/2011	3900 OLD HWY 45 N.	MANHOLE	UNSPECIFIED	40,000	POWER FAILURE AT PLANT	RESET MAIN POWER BREAKER	NEW GROUND TO BLOWER MOTOR	
2/10/2011	✓	✓	NOT AVAILABLE	1/31/2011	NOT AVAILABLE	2/10/2011	HILLCREST DRIVE/BROADHEAD PROPERTY	MANHOLE	UNSPECIFIED	25,000	TREE ROOTS	SPREAD LIME OVER AREA	PLANS TO REPLACE MANHOLE & REMOVE TREE THIS WEEK - WEATHER PERMITTING	FULL REPORT INCLUDES PICTURES
2/15/2011	✓		1PM	2/11/2011	9AM	2/14/2011	HYUNDAI HWY 39	MANHOLE	SOWASHEE CREEK	4,000	GREASE IN MANHOLE	FLUSHED LINES	RED HOT COMPOUND USED TO CLEAN LINE	
2/17/2011	✓		10:30AM	2/17/2011	11:30AM	2/17/2011	SHUMATE ROAD	MANHOLE	UNSPECIFIED	300	GREASE BLOCKAGE	FLUSHED LINES, RED HOT COMPOUND USED TO CLEAN LINE	LOCATION ADDED TO A BI-WEEKLY FLUSHING SCHEDULE	
3/10/2011	✓	✓	10PM ON SSO, 2AM CITY	3/8/2011	2AM	3/9/2011	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	8,400	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/10/2011	✓	✓	8PM	3/8/2011	6PM	3/10/2011	HWY 11/80 & RUSSELL DRIVE ON 8 INCH LINE THAT CONNECTS TO A 24 INCH LINE, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	229,950	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/10/2011	✓	✓	8PM	3/8/2011	6PM	3/10/2011	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	65,000	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/24/2011			NOT AVAILABLE	3/11/2011	NOT AVAILABLE	3/11/2011	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	9,800,000	PLANT WAS FORCED TO DIVERTED PORTION OF FLOW TO EQ BASINS	ONCE INFLUENT FLOW DECREASED, PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	
4/6/2011	✓		4AM	4/4/2011	7:30AM	4/4/2011	3900 OLD HWY 45 S.	INFLUENT LIFT STATION	UNSPECIFIED	25,000	POWER FAILURE	RESET MAIN POWER BREAKER	ADJUSTED ELECTRICAL PANEL AND GROUND FAULT SENSORS	
4/29/2011	✓	✓	5PM	4/28/2011	8PM	4/28/2011	HWY 11/80 AT STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	225	18", 3 INCHES OF RAIN, AS WELL AS PREVIOUS RAIN IN PAST 2 WEEKS	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
7/14/2011	✓	✓	2PM	6/16/2011	2PM	7/6/2011	15TH PLACE	MANHOLE	SOWASHEE CREEK	250,000	COMBINATION OF ROOTS & GREASE, A COLLAPSED LINE	JETTED & BROKE THE BLOCKAGE, REPLACED DAMAGED LINE	REPLACED LINE	NOTIFIED OF BAD SEWER ODOR ON JULY 5, 2011
7/26/2011	✓		2PM	7/25/2011	5PM	7/25/2011	HWY 11/80 CRACKER BARREL	MANHOLE	SOWASHEE CREEK	1,800	HIGH RAINFALL OF 1.5 INCHES	CLEANED DEBRIS AND SANITIZED	NO INFORMATION PROVIDED	
7/26/2011	✓		2PM	7/25/2011	5PM	7/25/2011	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	2,700	HIGH RAINFALL OF 1.5 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
7/26/2011	✓	✓	3:30PM	7/25/2011	4:30PM	7/25/2011	56TH AVENUE @ ROYAL ROAD	MANHOLE	GALLAGHER CREEK	1,000	EXCESSIVE RAINFALL - 1 INCH	CLEANED DEBRIS (SMALL AMOUNTS OF PAPER & GREASE) & SPRAYED DISINFECTANT OVER ENTIRE AREA	NO INFORMATION PROVIDED	
11/18/2011	✓	✓	7AM	11/16/2011	1PM	11/16/2011	OLD 8TH STREET & 70TH PLACE	PUMP STATION	SOWASHEE CREEK	12,000	PUMP FAILURE	CLEANED DEBRIS & USED DISINFECTANT TO KILL BACTERIA IN THE AREA	PUMP REPAIRED	FULL REPORT INCLUDES PICTURES
11/21/2011	✓	✓	2:30PM	11/18/2011	10:30PM	11/18/2011	29TH AVENUE, SOUTH BANK, APPROXIMATELY 200 YARDS WEST OF 29TH AVENUE BRIDGE/RR	MANHOLE	SOWASHEE CREEK	48,000	CAVE-IN, STORMWATER DRAIN	DIRT REMOVED TO ALLOW SEWAGE TO FLOW, TRENCH BOX PUT INTO PLACE TO PROTECT THE LINE	LINE WILL BE REPLACED WITH A LARGER LINE	FULL REPORT INCLUDES PICTURES
12/2/2011		✓	10AM	11/30/2011	1AM	12/1/2011	29TH AVENUE @ RR	MAIN LINE	SOWASHEE CREEK	700,000	PUMP FAILURE & SEPARATION IN LINE	SWITCHED OUT PORTABLE PUMP, REPAIRED LINE, LIME WAS SPREAD OVER ENTIRE AREA	REPAIRED LINE AND SWITCHED OUT PUMP	FULL REPORT INCLUDES PICTURES

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/3/2012	✓	✓	10AM	12/29/2011	2:30PM	12/29/2011	11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	5,400	GREASE BLOCKAGE	GREASE REMOVED BY FLUSH TRUCK, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/27/2012	✓		10AM	1/26/2012	2PM	1/26/2012	5310 OVERBROOK LANE	MANHOLE	UNSPECIFIED	10 gpm	GREASE BLOCKAGE & INFLOW	JETTED LINE TO BREAK BLOCKAGE & RESUME NORMAL FLOW, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	JETTED LINE TO BREAK BLOCKAGE & RESUME NORMAL FLOW	
1/27/2012	✓		10AM	1/26/2012	5PM	1/26/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	20 gpm	INFLOW - 3 INCHES OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/27/2012	✓		10AM	1/26/2012	6PM	1/26/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	20 gpm	INFLOW - 3 INCHES OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/27/2012	✓		9AM	1/26/2012	2PM	1/26/2012	26TH STREET & 40TH AVENUE	MAIN LINE	NO INFORMATION PROVIDED	4,500	INFLOW - 3 INCHES OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
2/3/2012	✓		8AM	1/27/2012	10AM	1/30/2012	3109 GRANDVIEW AVENUE	LINE	SOWASHEE CREEK	15gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
2/3/2012	✓		1PM	1/30/2012	2PM	1/31/2012	5525 CHEROKEE ROAD	MANHOLE	SOWASHEE CREEK	10 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
2/3/2012	✓		11AM	2/2/2012	6PM	2/2/2012	600 FRONTAGE ROAD	LINE	SOWASHEE CREEK	60 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
2/3/2012	✓		11AM	2/2/2012	5PM	2/2/2012	2900 SAINT PAUL STREET	LINE	SOWASHEE CREEK	60 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
3/2/2012	✓		10AM	2/28/2012	6PM	2/28/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	9,600	INFLOW - 1 INCH OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
3/2/2012	✓		10AM	2/28/2012	8:30AM	2/29/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	168,750	GREASE BLOCKAGE	GREASE REMOVED BY FLUSH TRUCK, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
3/26/2012			4PM	3/21/2012	7AM	3/24/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	96,000	EXCESSIVE RAINFALL - 3.5 INCHES	WORK ON PROBLEM AT CHIP MILL	PLANS TO REPLACE OLD SEWER LINE, INCREASE NEW LINE	
3/26/2012			4PM	3/21/2012	7AM	3/24/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	65,000	EXCESSIVE RAINFALL - 3.5 INCHES	CLEANED UP	PLANS TO INCREASE LINE AT CHIP MILL	
3/26/2012			4PM	3/21/2012	7AM	3/24/2012	HWY 11/80 EAST & RUSSELL STREET, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	100,000	EXCESSIVE RAINFALL - 3.5 INCHES	NO INFORMATION PROVIDED	PLANS TO INCREASE LINE AT CHIP MILL	
4/2/2012	✓	✓	10:30AM	3/29/2012	11:15AM	3/29/2012	HWY 11/CELOTEX	MANHOLE	SOWASHEE CREEK	600,000	PUMP STATION FAILURE	PUMP WAS RESET, LIME WAS SPREAD OVER THE ENTIRE AREA	PUMP WAS RESET	
6/25/2012		✓	7AM	6/25/2012	8:30AM	6/25/2012	HWY 39, NUMBER 1 LIFT STATION	PUMP STATION	SOWASHEE CREEK	50,000	POWER FAILURE	RESTORED POWER, COLLECTED ALL DEBRIS, SPREAD LIME OVER THE ENTIRE AREA	POWER RESTORED TO PUMP STATION	
8/1/2012	✓	✓	8PM	7/26/2012	8:30AM	7/27/2012	29TH AVENUE	MANHOLE	NONE	35,000	BROKEN LINE	REPAIRED LINE, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	REPAIR OF LINE	
8/20/2012		✓	3:30PM	8/18/2012	6PM	NOT AVAILABLE	TOMMY WEBB DRIVE	MANHOLE	SOWASHEE CREEK	200,000	1&I, 2 INCHES OF RAINFALL	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
12/17/2012	✓		10AM	12/17/2012	8PM	12/17/2012	CHIP PICKERING DRIVE AND STENNIS DRIVE	PIPE	SOWASHEE CREEK	320,000	BROKEN PIPE	STOPPED PUMP TO CEASE FLOW, REPAIRED PIPE AND SPREAD LIME OVER ENTIRE AREA	REPAIRED PIPE LINE	
1/4/2013	✓	✓	3:30PM	12/28/2012	NOT AVAILABLE	12/29/2012	HWY 45 SOUTH, BEHIND MS POWER	MANHOLE	SOWASHEE CREEK	350,000	BLOCKAGE	FLUSHED LINE & CLEANED DEBRIS, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	

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	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/4/2013	✓	✓	8PM	12/29/2012	11PM	12/29/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	18,000	EXCESSIVE RAINFALL	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/4/2013	✓	✓	8PM	12/30/2012	11PM	12/30/2012	SOWASHEE STREET	MANHOLE	DITCH TO SOWASHEE CREEK	1,800	EXCESSIVE RAINFALL - 1.5 INCHES	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/14/2013	✓	✓	7PM	1/12/2013	6AM	1/13/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	13,200	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
1/14/2013	✓	✓	6PM	1/12/2013	NOT AVAILABLE	1/14/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	72,000	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS	NO INFORMATION PROVIDED	ONGOING
1/14/2013	✓	✓	6PM	1/12/2013	6AM	1/13/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	10,800	EXCESSIVE RAINFALL - 2 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
1/28/2013	✓	✓	10AM	1/16/2013	10AM	1/19/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	51,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	10AM	1/16/2013	8AM	1/17/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	66,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	10AM	1/16/2013	8AM	1/21/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	142,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	10AM	1/16/2013	12NOON	1/23/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	151,200	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	1PM	1/23/2013	7PM	1/23/2013	29TH AVENUE, MULTI-COUNTY	MANHOLE	SOWASHEE CREEK	1,500	BLOCKAGE IN SEWER LINE	COLLECTED DEBRIS, SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	HWY 45 NORTH, ENTRANCE TO EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	8,100	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS, SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	2,700	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS, SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	10,800	EXCESSIVE RAINFALL - ABOUT 2 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	5,400	EXCESSIVE RAINFALL - ABOUT 2 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
2/11/2013	✓	✓	5PM	2/6/2013	2PM	2/7/2013	CHIP PICKERING DRIVE	MAIN LINE	SOWASHEE CREEK	300,000	BREAK IN LINE	SPREAD LIME OVER AREA	REPAIRED LINE	
2/14/2013	✓		1PM	2/13/2013	10PM	2/13/2013	65TH AVENUE (MAPLE GAS TERMINAL)	MANHOLE	SOWASHEE CREEK	10,800	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
2/14/2013	✓		9AM	2/12/2013	11PM	2/12/2013	40TH AVENUE & 26 STREET	MANHOLE	SOWASHEE CREEK	2,520	EXCESSIVE RAINFALL - 2.9 INCHES 2/11/2013 TO 2/12/2013	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		9AM	2/12/2013	11PM	2/12/2013	26 & 41ST STREET	MANHOLE	SOWASHEE CREEK	4,200	EXCESSIVE RAINFALL - 2.9 INCHES 2/11/2013 TO 2/12/2013	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	NOT AVAILABLE	2/13/2013	HWY 45 NORTH (EAST MERIDIAN WWTP ENTRANCE)	MANHOLE	SOWASHEE CREEK	42,000	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	6PM	2/13/2013	HWY 11 & 80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	70,800	EXCESSIVE RAINFALL - 6.74 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	6PM	2/13/2013	HWY 11 & 80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	84,000	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		6PM	2/11/2013	10PM	2/12/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	4,800	EXCESSIVE RAINFALL - 2.9 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	10AM	2/11/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	4,200	EXCESSIVE RAINFALL - 3.48 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	IDENTIFY I&I SPOTS IN LINE AND MAKE SPOT REPAIRS, TWO BREAKS AND ONE MANHOLE HAVE BEEN IDENTIFIED, REPAIRS BEGAN 2/14/2013 ON THESE	
2/14/2013	✓		8PM	2/10/2013	10AM	2/11/2013	HWY 145 & SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	1,680	EXCESSIVE RAINFALL - 3.48 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	

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	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
2/14/2013	✓		1PM	2/13/2013	2PM	2/13/2013	OLD 8TH STREET	MANHOLE	SOWASHEE CREEK	300	PUMP FAILURE DUE TO RAGS PREVENTING IMPALERS FROM TURNING	COLLECTED DEBRIS AND SPREAD LIME OVER AREA, PULLED PUMP TO BE REPAIRED	REPAIR OF PUMP	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	6,000	EXCESSIVE RAINFALL - 1.5 INCHES	SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	3,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	PARKWAY BOULEVARD	MANHOLE	SOWASHEE CREEK	600	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	900	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	65TH AVENUE	MANHOLE	DITCH TO SOWASHEE CREEK	3,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	8PM	3/12/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	9,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/21/2013	✓	✓	6PM	2/17/2013	10AM	2/18/2013	100 TO 65TH AVENUE	MANHOLE	SOWASHEE CREEK	10,000	EXCESSIVE RAINFALL - 8 INCHES THE WEEK PRIOR, PIPE RESTRICTION DUE TO JOINT FAILURE ALLOWING DIRT INTO SEWER LINE	REPAIRED AND WASHED LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA	LINE REPAIRED AND WASHED	
3/21/2013	✓	✓	10PM	3/18/2013	11AM	3/19/2013	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	177,000	BREAK IN LINE	SHUT OFF PUMP STATION	REPAIRED LINE	
3/21/2013	✓	✓	9AM	3/18/2013	6PM	3/19/2013	HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	3,800	INFLOW & PIPE RESTRICTION	JETTED LINE TO ALLOW MORE FLOW THROUGH LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/21/2013	✓	✓	X	3/19/2013	1PM	3/19/2013	34TH & 10TH AVENUE	LINE	SOWASHEE CREEK	60,000	BANK COLLAPSED SHIFTING THE LINE, WHICH CAUSED THE RUBBERS IN PIPE JOINTS TO PUSH OUT	REPAIRED LINE	REPAIRED LINE	
3/29/2013	✓	✓	3PM	3/24/2013	4:30PM	3/24/2013	4524 HWY 39 NORTH	MANHOLE	SOWASHEE CREEK	180	GREASE BLOCKAGE	JETTED LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/29/2013	✓	✓	11:30AM	3/24/2013	2PM	3/27/2013	HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	8,940	I&I, PIPE RESTRICTION	COLLECTED DEBRIS	NO INFORMATION PROVIDED	
5/1/2013	✓	✓	7AM	5/1/2013	X	X	EAST MERIDIAN WWTP, HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	55,000	EXCESSIVE RAINFALL - 1.5 INCHES	REMOVE DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
5/13/2013	✓	✓	7:30AM	5/10/2013	12PM	5/11/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	60,000	EXCESSIVE RAINFALL - 2 INCHES	REMOVE DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
5/13/2013		✓	7:30AM	5/10/2013	12PM	5/11/2013	EAST MERIDIAN WWTP, HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	75,000	EXCESSIVE RAIN - 2 INCHES	LIME AREA	NO INFORMATION PROVIDED	
6/18/2013			9AM	3/25/2013	10AM	3/25/2013	27TH STREET AND 45TH AVENUE	PUMP STATION	SOWASHEE CREEK	4,500	PUMP FAILURE	STATION BROUGHT BACK ONLINE BY CITY PERSONNEL	REPLACED CONTROLLER PANEL AT STATION	
6/18/2013			9AM	6/17/2013	11AM	6/17/2013	CHIP PICKERING DRIVE	LINE	SOWASHEE CREEK	147,000	BLOWOUT IN PRESSURE LINE	REPAIRED LINE	REPAIR OF LINE	
7/10/2013	✓		9:30AM	5/13/2013	1:30AM	5/17/2013	29TH AVENUE & SOWASHEE CREEK	24" SEWER LINE	SOWASHEE CREEK	120,000	BLOCKAGE IN LINE	REPAIR SEWER LINE, FLUSHED LINE AND CLEANED UP DEBRIS, LIME PUT DOWN OVER AREA	AT THIS TIME, CITY LOOKING TO REPLACE ABOUT 200' OF 24" SEWER LINE	SSO REPORT TO DEQ INCLUDED ATTACHMENT
8/15/2013	✓	✓	12AM	8/13/2013	10:30AM	8/14/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	10,500	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
8/15/2013	✓	✓	12AM	8/13/2013	9AM	8/14/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	13,200	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
10/7/2013	✓		10PM	10/3/2013	9AM	10/4/2013	COTTON GIN ROAD	PUMP STATION	DITCH TO SOWASHEE CREEK	10,000	PUMP FAILURE	COLLECTED DEBRIS AND DISINFECTED AREA	REPAIRED PUMP	
11/13/2013	✓		11PM	11/4/2013	1PM	11/5/2013	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	262,000	BREAK IN SEWER LINE	SPOT REPAIR OF LINE, COLLECTED DEBRIS AND DISINFECTED AREA	LINE REPAIRED	
11/13/2013	✓		X	11/9/2013	2:45PM	11/12/2013	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	968,000	BREAK IN LINE	SPOT REPAIR OF LINE, COLLECTED DEBRIS AND DISINFECTED AREA	LINE REPAIRED	

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	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/13/2014	✓		9AM	1/9/2014	2:15PM	1/9/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	132,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
1/21/2014	✓		8AM	1/17/2014	12NOON	1/17/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	127,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
1/28/2014	✓		2AM	1/27/2014	2PM	1/27/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	145,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
2/4/2014	✓		8AM	1/30/2014	2PM	1/30/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	130,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
2/5/2014	✓		10PM	2/5/2014	12:30PM	2/5/2014	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	30-35 GALS	EXCESSIVE RAIN - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/5/2014	✓		10PM	2/4/2014	12:30PM	2/5/2014	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	40-50 GPM	EXCESSIVE RAIN - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/13/2014	✓		7AM	2/10/2014	2PM	2/10/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	140,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
2/18/2014	✓		2:30PM	2/15/2014	8PM	2/15/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	125,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
3/4/2014	✓		5AM	2/21/2014	3PM	2/21/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	147,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
3/14/2014	✓		7AM	3/10/2014	1:30PM	3/10/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	138,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
3/28/2014	✓		12AM	3/28/2014	ONGOING	ONGOING	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	30-35 GPM	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/28/2014	✓		12AM	3/28/2014	ONGOING	ONGOING	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	60,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/28/2014	✓		12AM	2/28/2014	ONGOING	ONGOING	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	45 GPM	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/8/2014	✓		8PM	4/4/2014	10PM	4/8/2014	HWY 11/80 EAST, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	200 GPM	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/8/2014	✓		5PM	4/13/2014	3PM	4/15/2014	HWY 11/80 EAST, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	408,000	EXCESSIVE RAINFALL - 5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		6PM	4/13/2014	2PM	4/16/2014	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	365,000	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		8PM	4/4/2014	7PM	4/9/2014	HWY 45 NORTH, EAST WWTP ENTRANCE	MANHOLE	SOWASHEE CREEK	535,000	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		3PM	4/13/2014	2PM	4/15/2014	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	211,500	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		8PM	4/4/2014	6PM	4/7/2014	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	315,000	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	

Armstrong, Kathy

From: Schiff, Sara
Sent: Friday, May 30, 2014 9:30 AM
To: 'HughSmith@meridianms.org'
Subject: RE: Show Cause Meeting Times

That should work for us.

Thanks!

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Friday, May 30, 2014 9:02 AM
To: Schiff, Sara
Subject: RE: Show Cause Meeting Times

Sara,

I am sorry I did not specify, but it would be central time.

HS

From: "Schiff, Sara" <Schiff.Sara@epa.gov>
To: "HughSmith@meridianms.org" <HughSmith@meridianms.org>
Date: 05/30/2014 06:11 AM
Subject: RE: Show Cause Meeting Times

Hugh-

9:30 eastern time or central time? I need to double check with my attorney, but I'll let you know shortly.

Thanks,

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Thursday, May 29, 2014 6:59 PM
To: Schiff, Sara
Subject: RE: Show Cause Meeting Times

Ms. Sara,

I have gotten everyone on my end to agree to a conference call on Thursday, June 5th at 9:30 am. I really hope this works for you as well, and I apologize for taking so long on this.

HS

From: "Schiff, Sara" <Schiff.Sara@epa.gov>
To: "HughSmith@meridianms.org" <HughSmith@meridianms.org>
Date: 05/28/2014 06:57 AM
Subject: RE: Show Cause Meeting Times

That would be great. The sooner we can get this on the books, the better.

Honestly, we won't have that many questions for you, and most of the questions will be in response to the discussion. It's really an opportunity for you to respond to our inspection report and letter, and discuss the things Meridian is doing to address our concerns. Does that make sense?

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Wednesday, May 28, 2014 7:50 AM
To: Schiff, Sara
Subject: Re: Show Cause Meeting Times

Good morning, Sara. I trust that you had a great weekend as well. I am still trying to get responses back from the Mayor's office and from legal council. I will press to have an answer either today or tomorrow. I would also like to ask you about the show cause meeting. In order for us to be as prepared as possible, can you share with me the questions that will be asked? Any information or suggestions that you can provide will be greatly appreciated.

HS

Sent from my iPhone

On May 28, 2014, at 6:01 AM, "Schiff, Sara" <Schiff.Sara@epa.gov> wrote:

Good morning, Hugh. I hope you had a great Memorial Day weekend. I was wondering if you had a chance to figure out some dates that would work for you for a show cause. We would like to get that scheduled.

Thanks!

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Wednesday, May 21, 2014 9:40 AM
To: Schiff, Sara
Subject: RE: Show Cause Meeting Times

Sara,

Although we would rather meet in person, because of scheduling we were planning on having a conference call. I will let you know, as soon as I can, what dates in June work for us.

HS

From: "Schiff, Sara" <Schiff.Sara@epa.gov>
To: "HughSmith@meridianms.org" <HughSmith@meridianms.org>
Date: 05/20/2014 12:25 PM
Subject: RE: Show Cause Meeting Times

Hugh-

My attorney is actually out until the 27th, and I'll be on leave the 29th and 30th. Do you have any dates the following week (June 2nd or 4th - 6th) that would work for you? If possible the Wednesday afternoon or Thursday late morning/late afternoon would be most convenient. Also, are you planning on coming into the office for the meeting or having a teleconference?

Thanks,

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [<mailto:HughSmith@meridianms.org>]
Sent: Tuesday, May 20, 2014 1:18 PM
To: Schiff, Sara
Subject: Re: Show Cause Meeting Times

Sara,

My week has been very active thus far. . . thanks for asking! The following are the potential dates that we suggest.

5/28: 8am-12
5/29: 8am-12
5/30: 12pm-5

HS

From: "Schiff, Sara" <Schiff.Sara@epa.gov>
To: "hughsmith@meridianms.org" <hughsmith@meridianms.org>
Date: 05/20/2014 11:31 AM
Subject: Show Cause Meeting Times

Hugh-

Hope your week is off to a great start. I was wondering if you had a chance to pick some potential dates for the show cause meeting.

Thanks,

Sara Schiff
Environmental Engineer
Clean Water Enforcement Branch
US EPA - Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
P: (404) 562-9870
F: (404) 562-9729

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Armstrong, Kathy

From: Schiff, Sara
Sent: Tuesday, July 29, 2014 8:47 AM
To: 'HughSmith@meridianms.org'
Subject: RE: Response letter and appendices

Hugh-

Good morning. Did you see my email yesterday? Was the response letter and appendices supposed to be included in the attachments? I didn't see it. If so, please go resend it.

Thanks,

Sara Schiff
(404) 562-9870

-----Original Message-----

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Friday, July 25, 2014 6:58 PM
To: Floyd, Tanya; Schiff, Sara
Cc: percybland@meridianms.org; "mikemcgrevey@meridianms.org"@MeridianMS.org; ronnie@cloveryoung.com; michael@gogganslaw.com; Barbara_Kidd/COM@MeridianMS.org
Subject: Response letter and appendices

--=_reb-r216C669F-t53D2D31A--

Armstrong, Kathy

From: Janovitz, Sara
Sent: Tuesday, March 15, 2016 9:27 AM
To: 'HughSmith@meridianms.org'
Subject: RE: Rain/Flooding

Hugh-

That's good to hear. Hope you have a great day!

Sara Schiff Janovitz

(404) 562-9870

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Tuesday, March 15, 2016 9:26 AM
To: Janovitz, Sara
Subject: Re: Rain/Flooding

Sara,

First, let me say thank you for asking me about how we where impacted by last weeks rain event. Although we reported several SSO's they where localized and diluted from the rain water, the plant held up very well. All in all...last weeks rain event did not have a large impact own our POTW. I look foreword to seeing you soon.

HS

From: Janovitz.Sara@epa.gov
To: hughsmith@meridianms.org
Date: 03/14/2016 07:18 AM
Subject: Rain/Flooding

Hugh-

Hope you had a great weekend. Just wanted to check in and see if/how badly Meridian was impacted by the recent rainfall. How's everything at the WWTP?

Thanks,
Sara Janovitz

Armstrong, Kathy

From: HughSmith@meridianms.org
Sent: Tuesday, March 15, 2016 9:26 AM
To: Janovitz, Sara
Subject: Re: Rain/Flooding

Sara,

First, let me say thank you for asking me about how we where impacted by last weeks rain event. Although we reported several SSO's they where localized and diluted from the rain water, the plant held up very well. All in all...last weeks rain event did not have a large impact own our POTW. I look foreword to seeing you soon.

HS

From: Janovitz.Sara@epa.gov
To: hughsmith@meridianms.org
Date: 03/14/2016 07:18 AM
Subject: Rain/Flooding

Hugh-

Hope you had a great weekend. Just wanted to check in and see if/how badly Meridian was impacted by the recent rainfall. How's everything at the WWTP?

Thanks,
Sara Janovitz

Armstrong, Kathy

From: Janovitz, Sara
Sent: Wednesday, July 15, 2015 8:58 AM
To: 'Glaze, Rich'
Subject: RE: New meeting location tomorrow

Rich-

Got it.

Thanks,

Sara Schiff Janovitz

(404) 562-9870

-----Original Message-----

From: Glaze, Rich [mailto:rglaze@balch.com]
Sent: Tuesday, July 14, 2015 5:03 PM
To: Bush, William; Janovitz, Sara
Subject: New meeting location tomorrow

Meridian police department; 510 22d avenue, meridian 39301. Please confirm receipt.

t

Sent from my mobile device

[[image]]

Richard E. Glaze, Partner, Balch & Bingham LLP
30 Ivan Allen Jr. Boulevard, N.W. • Suite 700 • Atlanta, GA 30308-3036
t: (404) 962-3566 c: (404) 431- 4350 f:(866) 661-3268 e: rglaze@balch.com www.balch.com<<http://www.balch.com/>>

Armstrong, Kathy

From: Sayre, Dennis
Sent: Friday, June 06, 2014 11:05 AM
To: michael@gogganslaw.com
Cc: Janovitz, Sara; Horsey, Maurice; Floyd, Tanya
Subject: RE: EPA's Clean Water Act Settlement Penalty Policy

Categories: Record Saved - Shared

For a little clarification. What we need in addition to a response to the issues in the inspection report are:

1. A description of the proposed pump station to divert flow from the City's sewer to the East Plant, including dates, drawings, costs to install the pump station and sewer pipes, pump capacity, and any operating plans for the pump station (how will it be operated to divert flow during wet weather).
2. Any currently proposed or contractor requested sewer expansion projects.
3. Any currently proposed or planned pump station projects (additions, rehabilitation, repair) other than #1 above.
4. Any currently proposed or planned treatment plant projects (additions, rehabilitation, repair).
5. Any documents relating to the 2009 sewer assessment mentioned during our teleconference.
6. Any information regarding the East Plant and South Plant permit consolidation.
7. A current copy of any permit or permit applications regarding the consolidation of the East/South Plant flow.
8. Any information regarding diverting flow to the power plant (anticipated dates)

As stated in our conversation. We will need to take a close look at the entire sewer system. What that will entail is conducting a flow analysis throughout the system and calibrated hydraulic model of the main sewer trunks (at minimum) and, depending on the accuracy of your most current sewer map, sewer mapping to determine where the SSOs are occurring and where the excessive wet weather flow is coming from in order to target Infiltration and Inflow (I/I) removal in the system. I can say from experience that you should expect that a minimum 20%, to as much as 30% of your sewer system will need to be rehabilitated to reduce the I/I to a point that wet weather capacity will be achieved (that including the addition of the pump station, if it's feasible).

Best Regards,
Dennis

Dennis J. Sayre | Environmental Engineer | Inspector
Clean Water Enforcement Branch | Municipal & Industrial Enforcement Section
U.S. EPA Region 4 | 61 Forsyth St., SW | Atlanta, Georgia 30303
(404) 562-9756

"A candle loses nothing by lighting another candle."

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From: Floyd, Tanya
Sent: Thursday, June 05, 2014 6:16 PM
To: michael@gogganslaw.com

Cc: Schiff, Sara; Sayre, Dennis; Horsey, Maurice
Subject: EPA's Clean Water Act Settlement Penalty Policy

Michael,

It was a pleasure to talk to you and other City representatives today.

The EPA looks forward to talking to City representatives again in approximately two weeks and receiving the City's response to its Inspection Report on or before July 11, 2014. We request that such response include a detailed narrative addressing the actions taken or to be taken by the City to address each of the concerns contained in the report, including, but not limited to, a timeline for implementation and completion of each such action and cost estimates broken down for each of the actions to be taken.

As requested, attached is a link to the EPA's Clean Water Act Settlement Penalty Policy (please see pages 17-20 for a discussion of the National Municipal Litigation Consideration, including Tables A and B):
<http://www2.epa.gov/sites/production/files/documents/cwapol.pdf>

Please do not hesitate to contact me should you have any questions.

Best regards,
Tanya

Tanya Floyd
Associate Regional Counsel
U.S. Environmental Protection Agency, Region 4
Office of Environmental Accountability
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Phone: (404) 562-9813
Email: floyd.tanya@epa.gov

Armstrong, Kathy

From: Schiff, Sara
Sent: Tuesday, July 29, 2014 2:20 PM
To: 'HughSmith@meridianms.org'
Cc: 'michael@gogganslaw.com'; Floyd, Tanya; Sayre, Dennis
Subject: RE: EPA Cover letter Document

Hugh-

Thanks for sending the cover letter—it answered some initial questions I had after reviewing the attachments emailed to me last week. The City's response states that there are inconsistencies in the SSO data and that the City will submit a revised SSO list by July 31, 2014. Will this list be finished and emailed to me by this Thursday? Just as a reminder, a complete response to the Information Request was due on July 18, 2014, and anything not completely answered by July 18m 20104, could be a violation of Section 308 of the Clean Water Act.

Please let me know if you have any questions.

Sara Schiff
(404) 562-9870

From: HughSmith@meridianms.org [mailto:HughSmith@meridianms.org]
Sent: Tuesday, July 29, 2014 12:57 PM
To: Schiff, Sara
Subject: Fw: EPA Cover letter Document

----- Forwarded by Hugh Smith/COM on 07/29/2014 11:56 AM -----

From: Barbara Kidd/COM
To: Hugh Smith/COM@MeridianMS.org
Date: 07/18/2014 05:05 PM
Subject: Safe Water Document

The pages were scanned in back to front therefore, page 1 is actually page six.
My best,
BarbaraK

Armstrong, Kathy

From: Sayre, Dennis
Sent: Friday, April 25, 2014 10:00 AM
To: hughsmith@meridianms.org
Cc: Janovitz, Sara
Subject: Meridian data base information

Categories: Record Saved - Shared

Good morning Hugh,

I was looking at the data that your IT folks provided. Below is an example of the data. Can you please ask them to run another search and provide additional data that is associated with the work orders, such as the date and street address. It may be easier just to provide all data available in a spreadsheet for Dept 267. Also, can someone in your department provide a coordinates map or GIS layer that provides the location coordinates that the city is using along with an explanation of how these coordinates are used? For example, where is "LOCATION #10100616531123?" What does the "Line Numb" column represent. They can email me the Excel spreadsheet and any other data.

We are currently drafting a 308 information request letter for additional information regarding SSO records and such but it's just easier to do this separate from that request.

Thanks,
Dennis

Work Order Year	Work Order Dept	Work Order Numb	Work Order Source	Source Description	Line Numb	Comment
11	267	23	WO	Work Order Comment	1	REPAIR SEWER CAVE-IN
11	267	23	WO	Work Order Comment	3	LOCATE #10100616531123
11	267	25	WO	Work Order Comment	1	REPAIR SEWER
11	267	25	WO	Work Order Comment	3	LOCATE #10083114360674
11	267	69	WO	Work Order Comment	1	REPAIR SEWER LINE
11	267	69	WO	Work Order Comment	3	EMERGENCY LOCATE #10101

Dennis J. Sayre | Environmental Engineer | Inspector
Clean Water Enforcement Branch | Municipal & Industrial Enforcement Section
U.S. EPA Region 4 | 61 Forsyth St., SW | Atlanta, Georgia 30303
(404) 562-9756

"A candle loses nothing by lighting another candle."

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Armstrong, Kathy

From: Strube, Diane <dstrube@balch.com>
Sent: Monday, July 20, 2015 12:49 PM
To: Ben McMurtray; Bush, William; Bunky Partridge; Baschon, Carol; David Sloan; David Whitaker; Sayre, Dennis; Dustin Markham; Gretchen Zmitrovich; Harold Underwood; Hugh Smith; Jim Harvey ; Kim Houston; Les Herrington ; Louis Jackson; Matthew Horton; Mike McGhee; Percy Bland; Randy Hammon ; Glaze, Rich; Riche McAlister; Ronnie Walton; Janovitz, Sara; Stacey Thompson; McKinney, Steve; Wayne Miles
Subject: FW: Wednesday, July 15, 2015 Meridian Meeting With EPA
Attachments: July 15, 2015 Sign in Sheet.pdf; Sign In Sheet 07.15.15.docx

Dear All,

At the request of Rich Glaze, I am attaching the original Sign In Sheet for the Wednesday, July 15, 2015 meeting and a printed version.

Thank you.



Diane Strube, Legal Secretary, Balch & Bingham LLP
30 Ivan Allen Jr. Boulevard, N.W. • Suite 700 • Atlanta, GA 30308-3036
t: (404) 962-3599 f:(866) 547-3431 e: dstrube@balch.com
www.balch.com

Sign in Sheet

DUSTIN MARKHAM	CITY OF MERIDIAN	
Negh Smith Jr	City of Meridian	hughsmith@meridian.ms.us
RANDY HAMMON	CITY OF MERIDIAN	RHAMMON@GMAIL.COM
LES HERRINGTON	MDEQ	lherrington@dep.state.ms.us
Gretchen Zmitrovich	MDEQ legal	gretchen-zmitrovich@mdq.usgov
JIM HARVEY	MDEQ	JIM-HARVEY@DEQ.STATE.MS.US
Carol Baschon	EPA	baschon.carol@epa.gov
Bill Bush	EPA	bush.william@epa.gov
Mike McHee	CDM (consultant)	rmcghree2@bellsouth.net
Wayne Miles	CDM Smith	milesww@cdmsmith.com
Rich Glaze	Balch & Bingham	rglaze@balch.com
DAVID WHITAKER	CITY OF MERIDIAN	DAVIDWHITAKER@MERIDIANMS.ORG
Percy Bland	Mayor Mdn	percybland@meridianms.org
Kim Houston	City Council (VP)	Kim4council@yahoo.com
Ronnie Walton	City Attorney	ronnie@gloveryoung.com

Sign up sheet

NAME	Organization	
David Sloan	City of Meriden	Public Worker
Dennis Sayre	EPA RA	Sayre.dennis@epa.gov 404-562-9756
Sara Janovitz	EPA RA	Janovitz.Sara@epa.gov 404-562-9890

Sign in Sheet

Bunk, Partridge Meridian com

Steve McKinney Balch & Bingham

Ben McMurtrey

Glover, Young, Hammack, ~~Winters, Young~~ - ben@gloveryoung.com

Richie McAlister

City of Meridian richiemcalister@meridianms.org

Stacey Thompson

City of Meridian staceythompson@meridianms.org

MATTHEW HORTON

CDM SMITH

HORTONMR@CDMSMITH.COM

Harold Underwood

CDM Smith

underwoodh@cdmsmith.com

Lou's Jackson

CDM Smith

JacksonLL@cdmsmith.com

City of Meridian – Sign In Sheet

July 15, 2015

Dustin Markham	City of Meridian (left early)	Kennethmarkham@meridianms.org
Hugh Smith	City of Meridian	hughsmith@meridianms.org
Randy Hammon	City of Meridian	rbhammon@gmail.com
Les Herrington	MDEQ	Lherrington@deq.state.ms.us
Gretchen Zmitrovich	MDEQ legal	Gretchen_zmitrovich@mdeq.ms.gov
Jim Harvey	MDEQ	jim_harvey@deq.state.ms.us
Carol Baschon	EPA	baschon.carol@epa.gov
Bill Bush	EPA	bush.william@epa.gov
Mike McGhee	CDM (consultant)	rmcghee2@bellsouth.net
Wayne Miles	CDM Smith	miles@cdmsmith.com
Rich Glaze	Balch & Bingham	rglaze@balch.com
David Whitaker	City of Meridian	davidwhitaker@meridianms.org
Percy Bland	City of Meridian	percybland@meridianms.org
Kim Houston	City of Meridian	kim4council@yahoo.com
Ronnie Walton	City Attorney	Ronnie@gloveryoung.com
David Sloan	City of Meridian	DavidSloan@meridianms.org
Dennis Sayre	EPA Region 4	sayre.dennis@epa.gov
Sara Janovitz	EPA Region 4	janovitz.sara@epa.gov
Bunky Partridge	City of Meridian	bunkypartridge@meridianms.org
Steve McKinney	Balch & Bingham	smckinney@balch.com
Ben McMurtry	City Attorney	ben@gloveryoung.com
Richie McAlister	City of Meridian	richiemcalister@meridianms.org
Stacey Thompson	City of Meridian	staceythompson@meridianms.org
Matthew Horton	CDM Smith	hortonmr@cdmsmith.com
Harold Underwood	CDM Smith	underwoodh@cdmsmith.com
Louis Jackson	CDM Smith	jacksonll@cdmsmith.com

Armstrong, Kathy

From: Schiff, Sara
Sent: Thursday, June 12, 2014 7:56 AM
To: 'HughSmith@meridianms.org'
Subject: FW: Meridian, MS Call - June 18th at 11 a.m. (Eastern)/10 a.m. (Central)

Hugh-

Good morning. I just got your voicemail about setting up a conference call. Did you receive this email below with a proposed time?

Thanks-

Sara Schiff
(404) 562-9870

From: Floyd, Tanya
Sent: Wednesday, June 11, 2014 12:26 PM
To: HughSmith@meridianms.org; Schiff, Sara; michael@gogganslaw.com
Cc: Sayre, Dennis; chris_sanders@deq.state.ms.us; Mike McGrevey; Matthew Horton; Chris_Wells@deq.state.ms.us; Horsey, Maurice
Subject: Meridian, MS Call - June 18th at 11 a.m. (Eastern)/10 a.m. (Central)

Michael and Hugh,

The EPA and MDEQ are available for a call on Wednesday, June 18th, at 11:00 a.m. (Eastern)/10:00 a.m. (Central).

The EPA will send out a conference number prior to the call. Please let me know if the City will need more than 2 separate phone lines for the call.

Best regards,
Tanya

Tanya Floyd
Associate Regional Counsel
U.S. Environmental Protection Agency, Region 4
Office of Environmental Accountability
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Phone: (404) 562-9813
Email: floyd.tanya@epa.gov

From: HughSmith@meridianms.org [<mailto:HughSmith@meridianms.org>]
Sent: Friday, June 06, 2014 4:31 PM
To: Schiff, Sara
Cc: Sayre, Dennis; Floyd, Tanya; chris_sanders@deq.state.ms.us; Mike McGrevey; Matthew Horton
Subject: Re: Revised Agenda

Ms. Schiff,

The proposed dates and times for our next conference call are:
6/18, 9-4pm; 6/19, 9-4pm and 6/20, 12-4 pm.

Thank you,

Hugh Smith
Director of Public Works
City of Meridian
Cell: (601) 934-7406
Office: (601) 485-1920

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Armstrong, Kathy

From: HughSmith@meridianms.org
Sent: Tuesday, July 29, 2014 12:57 PM
To: Janovitz, Sara
Subject: Fw: EPA Cover letter Document
Attachments: Sara Schiff 1 001.jpg; Sara Schiff 2 001.jpg; Sara Schiff 3 001.jpg; Sara Schiff 4 001.jpg; Sara Schiff 5 001.jpg; Sara Schiff 6 001.jpg

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Record Saved - Shared

----- Forwarded by Hugh Smith/COM on 07/29/2014 11:56 AM -----

From: Barbara Kidd/COM
To: Hugh Smith/COM@MeridianMS.org
Date: 07/18/2014 05:05 PM
Subject: Safe Water Document

The pages were scanned in back to front therefore, page 1 is actually page six.
My best,
BarbaraK

MERIDIAN

CITY OF MERIDIAN

A better longitude on life.

We appreciate the additional time that EPA has provided in responding to your information request. On behalf of the City, I commit the full cooperation of city resources to address your questions and to address the concerns that have been expressed as related to the performance of the City's wastewater system.

Mayor:

PERCY BLAND, III
(601) 485-1927
FAX: (601) 485-1911

Council Members:

GEORGE M. THOMAS
Ward 1

K. DUSTIN MARKHAM
Ward 2

BARBARA HENSON
Ward 3


KIM HOUSTON
Ward 4

RANDY HAMMON
Ward 5

COUNCIL CLERK
(601) 485-1959
FAX: (601) 485-1913

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Percy Bland
Mayor
City of Meridian, Mississippi

CITY DEPARTMENTS:

Chief Administrative Officer
(601) 485-1929
FAX: (601) 485-1911

Community Development:
(601) 485-1910
FAX: (601) 484-6813

Finance and Records:
(601) 485-1946
FAX: (601) 485-1979

Fire:
(601) 485-1922
FAX: (601) 485-1035

Homeland Security:
(601) 484-6890
FAX: (601) 484-6895

Parks and Recreation:
(601) 485-1802
FAX: (601) 485-1851

Police:
(601) 485-1841
FAX: (601) 484-6832

Public Works:
(601) 485-1920
FAX: (601) 485-1864

cc: Mississippi Department of Environmental Quality
Hugh Smith, Jr., City of Meridian
Michael D. Goggans, The Goggans Law Firm, PLLC

601 23rd Avenue
Post Office Box 1430
Meridian, MS 39302-1430
www.meridianms.org

Gross, Louann

Subject: FY17 First Quarter LPO Teleconference
Location: DCRoomWest5124p10/DC-CCW-OEI

Start: Thu 12/15/2016 1:00 PM
End: Thu 12/15/2016 2:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Gheitu, Judy

Required Attendees: Bhagya Subramanian; Bob Hartman; Brian Hope; Cassandra Smiley; Cathy McGuire; Chui-mei; Dubbs, Kimberly; Ed Kim; Gayla Mendez; Jeffrey Stevens; Jerrod Rodriguez; Jessica Wheatley; Joe Merer; John R Campbell; Judy Earle; Ken Schifter; Larry Dollison; Louann Gross; Maggy Shyu; Marilyn Malloy; Marlyn Aguilar; Marshall Mansfield; Maya Newman; Michael Callewaert; Monika Koonce; Nishtar Saleem; OEI-IMO; OIG_FOIA@epa.gov; Pamela Rhones-Younger; Phoebe Macleish; Raymond Boone; Robert Eckman; Robert Siliato; Rudy Martinez; Sharon Hilliard; Solymar Grecco; Steve Settle; Terrence Ferguson; Tonya Macon

Conference Number(s): 1-866-299-3188
Participant Code: 2025661668

Agenda to follow.



July 18, 2014

A better longitude on life.

Mayor:
PERCY BLAND, III
(601) 485-1927
FAX: (601) 485-1911

Council Members:
GEORGE M. THOMAS
Ward 1

K. DUSTIN MARKHAM
Ward 2

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Sara Schiff, Enforcement Officer
U.S. Environmental Protection Agency, Region 4
Clean Water Enforcement Branch
61 Forsyth Street, S.W.
Atlanta, Georgia, 30303-8960

Subject: U.S. Environmental Protection Agency and Mississippi
Department of Environmental Quality Compliance Evaluation
Inspection
NPDES Permit Nos. MS0020117 and MS0055735
Meridian South POTW and Meridian East POTW
Response to Notice of Violation and Information Request and
Supplemental Information Request

Dear Ms. Schiff:

The City of Meridian (City) is responding to U.S. Environmental Protection Agency's Clean Water Act Section 308 Notice of Violation and Information Requests, dated May 6, 2014 and June 25, 2014, regarding the City's South Wastewater Treatment Plant (WWTP) and the City's East WWTP. Responses to the individual questions in the Information Requests are provided below. In some cases, the requested information is described within this letter with supplemental data included as a separate appendix to this letter. We appreciate the opportunity to respond to your concerns.

Provide the date and street address for the work orders provided to the EPA during the Compliance Evaluation Inspection from January 2011 to Present

The complete work order database from January 2011 to May 6, 2014 is included on the enclosed disc as **Appendix A**. The information includes the date and street address for each work order.

What does the "Line Numb" column represent in the spreadsheet submitted to the EPA during the CEI?

The following language is a summary of response email sent from City of Meridian's IT Department on 4/29/2014: The "Line Numb" column is the verification code to locate requests that are made to MS 811 (the statewide utility location service). For example, a line number of 14042508510158 would be broken down as follows: the first six numbers represent the date (140425= April 25, 2014), the next four numbers represent the time the request was made (0851=08:51 a.m.), and the last four numbers represent the actual request number of the day (0158=158). Locate requests are always entered into the system, along with a follow-up work order, to the address to

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installation of new blowers, air piping improvements and sludge piping improvements, which should allow the biological treatment portion of the WWTP to nitrify the wastewater as designed for ammonia removal. The Phase 2 electrical improvements and installation of emergency generators will allow the WWTP to continue biological treatment of wastewater during power outages thus minimizing effluent limit exceedances in those circumstances.

All but one of the effluent limit exceedances by the East WWTP-MS0055735 were addressed by covering the plant's equalization basin with a modular insulated cover. This cover prevented algae growth in the equalization basin which was determined to be the cause of most of the plant's effluent limit exceedance. The effluent limit exceedance on lead has not reoccurred.

Please provide a narrative description of actions taken or to be taken to address each of the concerns contained in the EPA's Inspection Report dated April 18, 2014:

In addition to addressing effluent limit exceedances as described above, the Phase 2 South WWTP project, *Process Mechanical and Electrical Upgrades*, should address particular concerns contained in EPA's Inspection Report dated April 18, 2014. For example, the installation of new blowers, air piping improvements and sludge piping improvements will eliminate leaks in the RAS piping and allow the WWTP to operate at higher mixed liquor suspended solids (MLSS) concentrations if required to improve biological treatment.

With respect to SSOs, the City intends to perform rehabilitation work on the trunk line where many SSOs occur. Additionally, the East Meridian Pump Station, which is currently being designed, will further reduce SSOs once construction is complete.

The City also plans to implement a comprehensive Fats, Oil and Grease (FOG) Control program along with a CCTV inspection program. Furthermore, the City plans to update the Work Order program and the City will also update the Asset Management program. All of these items are steps towards completion of a Capacity, Management, Operation, and Maintenance (CMOM) Assessment.

For any SSOs included in the SSO list provided to the EPA by the City of June 17, 2014, which have not been reported to MDEQ, please provide an explanation for why each such SSO has not been reported to MDEQ:

As previously discussed, the City is compiling a list of SSOs along with the specific requested information related to each event as outlined in the EPA information request. A preliminary list of this information is included with this letter; however, the final listing of all SSOs will be provided at the earliest possible date but no later than July 31, 2014.

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- Installation of new primary sludge and waste activated sludge (WAS) pumps and controls on 9 MGD train, installation of new primary sludge, return activated sludge (RAS), and WAS pumps and controls on 4 MGD train.
- Installation of two (2) new RAS pumps and rebuilding of all 24 existing RAS pumps with new controls on the 9 MGD train.
- Modification and replacement of existing sludge piping, valves, flow meters, and appurtenances to repair leaks and improve the transport of sludge throughout the WWTP.

- Modifications to the Blower Building including the installation of two (2) new blowers, air piping, piping components and a dissolved oxygen (DO) control system.
- Replacement of the aeration header piping on the 9 MGD train.
- Modifications to the digesters including the installation of one (1) new blower, replacement air piping, valves and appurtenances within the Digester Building and replacement of the coarse bubble diffuser system within the digesters. Modifications also include cleaning of both digesters prior to replacement of the diffuser system.
- Modifications to the Non-Potable Water (NPW) Pump Room including installation of hydro-pneumatic booster pumping system.
- Modifications and upgrades to the WWTP's electrical equipment including the addition of two (2) new emergency generators and new LED site lighting.

Please provide a copy of the 2007 sewer assessment/sewer survey report/documents:

The 2010 Wastewater Collection System Rehabilitation Program Final Report by Carollo Engineers is included on the enclosed disc as **Appendix E**.

Please provide the most recent NPDES permit application submitted to MDEQ regarding the consolidation of the East and South WWTPs:

The permit application and NPDES permit is included on the enclosed disc as **Appendix F**.

Please provide a narrative description discussing the actions taken, or to be taken by the City to address the effluent limit exceedances contained in Enclosure B to the EPA's May 6, 2014 correspondence:

The Phase 2 South WWTP project, *Process Mechanical and Electrical Upgrades*, is expected to address particular effluent limit exceedances including ammonia, dissolved oxygen (DO), and 5-day BOD through the

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Please provide flow monitoring data relating to the East Meridian Pump Station design:

The pertinent flow monitoring data is included on the enclosed disc as **Appendix D.**

Please provide a list of any currently proposed or contractor requested sewer expansion projects:

There are currently no proposed or contractor requested sewer expansion projects.

Please provide a list of any currently proposed or planned pump station projects other than the East Meridian Pump Station:

There are currently no proposed or planned pump station projects other than the East Meridian pump station.

Please provide a narrative description relating to the Phase 1 and Phase 2 South WWTP rehabilitation projects:

The City initiated improvements to the South WWTP using a phased approach beginning in 2008 with rehabilitation to the WWTP's headworks. Phase 1 of the project included installation of a new mechanical bar screen upstream of the screw pumps, installation of two (2) new 6mm fine screens each with a washer/compactor downstream of the screw pumps, and modifications to the grit removal/cleaning system at the aerated grit basin including installation of a new screw conveyor, two (2) grit pumps, one (1) grit washer with conveyor/dewatering, one 48-inch diameter manhole, and refurbishing of existing swing air diffuser piping. During construction, the WWTP's existing headworks equipment including the mechanically cleaned bar screen, two (2) existing fine screens, screw conveyor and bucket conveyor with associated washer/conveyor was demolished. The project also included minor structural and electrical modifications within the headworks and other work incidental to the project.

The second phase of the rehabilitation to the South WWTP (*Process Mechanical and Electrical Upgrades*) is scheduled to advertise for bid on August 12, 2014 and August 19, 2014, as required by Public Bid Law, with bids to be opened September 12, 2014. The estimated construction cost for the project is approximately \$6,000,000. This project is funded by the Mississippi Department of Environmental Quality's (MDEQ) Water Pollution Control (Clean Water) Revolving Loan Fund (WPCRLF). The project includes the following items of work:

- Replacement or rebuilding of all existing process mechanical pumps located on the 4 MGD and 9 MGD trains. EPA's Inspection Report dated April 18, 2014 refers to these as the "old side" and "new side", respectively. Specifically this work includes the following:

MERIDIAN

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www.meridianms.org

which the request pertains. The follow-up work order usually contains the finalized summary of the work done, the materials used and total time required to complete the job.

Provide a listing of all SSOs that occurred from September 2008 to the present.

A substantially complete listing of all SSOs that occurred from September 2008 through May 6, 2014 is included on the enclosed disc as **Appendix B**. During the compilation of this information, inconsistencies were identified between the City's SSO list, the Mississippi Department of Environmental Quality's (MDEQ) SSO list, and the SSO Reporting Forms provided to MDEQ. In an effort to ensure that the information provided is as complete and accurate as possible, the City is working diligently reconcile these inconsistencies. Pending a conversation with MDEQ officials, the City is committed to providing a further revised listing of all SSOs to the EPA by July 31, 2014. The City's Sewer Overflow Response Plan (SORP) is included on the enclosed disc as part of **Appendix B**.

The following questions and/or requests for information were submitted to the City of Meridian in EPA's Request for Supplemental Information letter:

Please provide a description of the proposed pump station project to divert flow from the City's sewer to the East WWTP:

CDM Smith has been retained to provide design services for the East Meridian Pump Station. The new station will collect the wastewater flow contributed by the Marion community and convey the wastewater via force main to the East WWTP. The new pump station will be designed as a precast duplex station with a firm capacity of 750 gpm. The station will have a slot for a future pump to receive flow from North Meridian and provide future flexibility. If the capacity of the station was to be exceeded, or there was a pump or power failure at the station, the design will allow wastewater flow to continue down the existing sewer line to the South WWTP. Additionally, the station will be designed to allow the capacity of the station to be increased to 1,400 gpm in the future by installing a parallel force main. The station shall be controlled by float switches and will communicate with the East WWTP's SCADA system via radio. The final plans and specifications are expected to be completed by the end of August 2014. City personnel will be constructing the pump station with an expected completion date of June 1, 2015. The estimated construction cost for the project is approximately \$250,000. A preliminary site plan, mechanical plan and section of the pump station are included on the enclosed disc as **Appendix C**.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

JUN 25 2014

CERTIFIED MAIL 7012 1010 0002 0759 6113
RETURN RECEIPT REQUESTED

The Honorable Percy Bland
Mayor of Meridian
601 23rd Avenue
Meridian, Mississippi 39302

Re: Approval of Extension to Respond to the May 6, 2014 Information Request and Request for Supplemental Information Pursuant to Section 308 of the Clean Water Act National Pollutant Discharge Elimination System Permit Nos.: MS0020117 and MS0055735 Meridian South Publically Owned Treatment Works and Meridian East Publically Owned Treatment Works

Dear Mayor Bland:

Based on conversations held on June 5, 2014, and June 18, 2014, between the U.S. Environmental Protection Agency Region 4, the City of Meridian (the City) and the Mississippi Department of Environmental Quality (MDEQ), the EPA hereby agrees to extend the deadline for the City's submittal of a response to the EPA's May 6, 2014, Information Request (IR) issued pursuant to Section 308 of the Clean Water Act (CWA), 33 U.S.C. § 1318, from June 11, 2014, to July 11, 2014.

The EPA deems the sanitary sewer overflow (SSO) list submitted electronically by the City's legal counsel Michael Goggans, on June 17, 2014, in response to Question 3 in the IR to be incomplete because, in part, it does not contain a complete list of SSOs reported to MDEQ during September 2008 to May 6, 2014, and SSOs observed by the EPA during its April 2014 Compliance Evaluation Inspection. As stated in the IR, SSO is defined as an overflow, spill, release or diversion of wastewater from the sanitary sewer system. SSOs include overflows or releases of wastewater that reach waters of the U.S.; overflows or releases of wastewater that do not reach waters of the U.S.; and wastewater backups into buildings that are caused by blockages or flow conditions in a sanitary sewer other than a building lateral. Wastewater backups into buildings caused by a blockage or other malfunction of a building lateral that is privately owned is not an SSO. The City's response to Question 3 is required to include, in part, all SSOs as defined by the above definition for the time period of September 2008 to May 6, 2014. No response has been provided by the City to date for any of the additional questions contained in the IR.

In addition to providing a complete response to the EPA's IR, the EPA also requests additional information detailed below:

1. Please provide a description of the proposed pump station project to divert flow from the City's sewer to the East Wastewater Treatment Plant (WWTP), including anticipated commencement and completion dates, drawings, costs to install the pump station and sewer pipes, pump capacity and any operating plans for the pump station, including how it will be operated to divert flow during wet weather.
2. Please provide flow monitoring data relating to the pump station design to divert flow to the East WWTP.
3. Please provide a list of any currently proposed or contractor requested sewer expansion projects, including dates of anticipated commencement and completion of such projects and estimated costs for such projects.
4. Please provide a list of any currently proposed or planned pump station projects (such as additions, rehabilitation and/or repair) other than the proposed pump station project to divert flow to the East WWTP, including dates of anticipated commencement and completion of such projects and estimated costs for such projects.
5. Please provide a narrative description relating to the Phase 1 and Phase 2 South WWTP rehabilitation projects discussed by the City's representatives during the June 18, 2014, teleconference, including, but not limited to, narrative project descriptions, dates of anticipated commencement and completion of such projects and any cost estimates for each such project.
6. Please provide a copy of the 2007 sewer assessment/sewer survey report/documents discussed during the June 5, 2014, teleconference.
7. Please provide the most recent National Pollutant Discharge Elimination System permit application submitted to MDEQ regarding the consolidation of the East and South WWTPs.
8. Please provide a narrative description discussing the actions taken or to be taken by the City to address the effluent limit exceedances contained in Enclosure B to the EPA's May 6, 2014, correspondence, including, but not limited, to a timeline for implementation and completion of each such action and cost estimates broken down for each of the actions to be taken.
9. If not previously provided in response to the above questions, please provide a narrative description of actions taken or to be taken to address each of the concerns contained in the EPA's Inspection Report dated April 18, 2014, including, but not limited to, a timeline for implementation and completion of each such action and cost estimates broken down for each of the actions to be taken.
10. For any SSOs included on the SSO list provided to the EPA by the City on June 17, 2014, which have not been reported to MDEQ, please provide an explanation for why each such SSO has not been reported to MDEQ.

The City is required to respond to the May 6, 2014 Information Request and this Supplemental Information Request on or before July 11, 2014. The response should be directed to:

Ms. Sara Schiff, Enforcement Officer
U.S. Environmental Protection Agency, Region 4
Clean Water Enforcement Branch
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

The City's response to both the IR and this Supplemental Information Request should specifically reference the particular Information Request, including the section and number of the Information Request and should be organized for the purpose of clarity. Additionally, all information submitted in response thereto must be accompanied by the following certification signed by a responsible City official in accordance with 40 C.F.R. § 122.22:

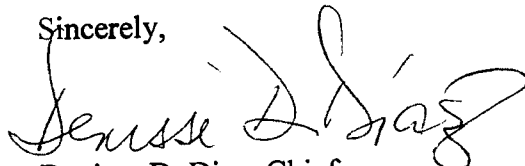
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Failure to completely comply with both the IR and this Supplemental Information Request may result in enforcement proceedings under Section 309 of the CWA, 33 U.S.C. § 1319, which could result in the judicial imposition of civil or criminal penalties or the administrative imposition of civil penalties. In addition, there is potential criminal liability for the falsification of any response to the requested information.

The City shall preserve, until further notice, all records (either written or electronic) which exist at the time of receipt of the IR that relate to any of the matters set forth in that Information Request or this Supplemental Information Request. The term "records" shall be interpreted in the broadest sense to include information of every sort. The response to this Information Request shall include assurance that these record protection provisions were put in place as required. No such records shall be disposed of until written authorization is received from the Chief of the Clean Water Enforcement Branch at the U.S. EPA, Region 4.

Please feel free to contact Ms. Schiff at (404) 562-9870 or by email at schiff.sara@epa.gov, if you have questions regarding either the IR or this Supplemental Information Request. Legal inquiries should be directed to Ms. Tanya Floyd, Associate Regional Counsel at (404) 562-9813 or by email at floyd.tanya@epa.gov.

Sincerely,



Denisse D. Diaz, Chief
Clean Water Enforcement Branch
Water Protection Division

Enclosure

cc: Mr. Michael Goggans
Counsel for City of Meridian

Mr. Hugh Smith
City of Meridian

Mr. Chris Sanders
Mississippi Department of Environmental Quality

Mr. Les Herrington
Mississippi Department of Environmental Quality



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
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MAY 06 2014

CERTIFIED MAIL 7012 1010 0002 0759 6854
RETURN RECEIPT REQUESTED

The Honorable Percy Bland
Mayor, City of Meridian
601 23rd Avenue
Meridian, Mississippi 39302

Re: U.S. Environmental Protection Agency and Mississippi Department of Environmental
Quality Compliance Evaluation Inspection
Notice of Violation, Notice of Opportunity to Show Cause and Information Request
National Pollutant Discharge Elimination System Permit Nos.: MS0020117 and MS0055735
Meridian South Publically Owned Treatment Works and Meridian East Publically Owned
Treatment Works

Dear Mayor Bland:

On April 8 – 9 2014, the U.S. Environmental Protection Agency Region 4 and the Mississippi Department of Environmental Quality (MDEQ) conducted a Compliance Evaluation Inspection (CEI) of the City's Wastewater Collection and Transmission System (WCTS) associated with the Meridian South Wastewater Treatment Plant (South WWTP) and the Meridian East Wastewater Treatment Plant (East WWTP) and also performed a Reconnaissance Inspection on the City's South WWTP. The objective of this CEI was to assess the City's compliance with the Clean Water Act (CWA) and the City's National Pollutant Discharge Elimination System (NPDES) permits. Additionally, the EPA evaluated the City's Management, Operations and Maintenance Programs related to its WCTS and assessed the overall condition of the South WWTP. The inspection results are summarized in the enclosed inspection report.

During the CEI, the City provided the EPA with information gathered from its Wastewater Division customer complaint database. The EPA has several questions regarding the database, which are outlined below. The EPA also has questions outlined below regarding Sanitary Sewer Overflows (SSOs).

1. Please provide the date and street address for the works orders provided to the EPA during the CEI from January 2011 to present.
2. What does the "Line Numb" column represent in the spreadsheet submitted to the EPA during the CEI?
3. For purposes of this Information Request, a sanitary sewer overflow (SSO) is an overflow, spill, release, or diversion of wastewater from the sanitary sewer system. SSOs include overflows or releases of wastewater that reach waters of the U.S.; overflows or releases of wastewater that do not reach waters of the U.S.; and wastewater backups into buildings that are caused by blockages

or flow conditions in a sanitary sewer other than a building lateral. Wastewater backups into buildings caused by a blockage or other malfunction of a building lateral that is privately owned is not an SSO.

Provide a listing of all SSOs that occurred from September 2008 to the present. For each SSO provide the following:

- a. Date(s) of the SSO;
- b. Time (and Date if other than a. above) when the City was notified that the SSO event occurred;
- c. Time (and Date if other than a. above) when the City (or contractor) crew responded to the SSO;
- d. Time (and Date if other than a. above) when the SSO ceased;
- e. Time (and Date if other than a. above) when corrective action was completed;
- f. Location of the SSO, including source (pump station, manhole, etc.);
- g. Ultimate destination of the SSO, such as surface waterbody (by name, if available), storm drain leading to surface waterbody (by name, if available), dry land, building, etc.;
- h. Volume of the SSO;
- i. Cause of the SSO such as grease, roots, other blockages, wet weather (infiltration and inflow), loss of power at pump station, pump failure, etc.;
- j. Corrective actions taken to stop the SSO; and
- k. Corrective actions taken to prevent this or similar SSOs in the future.

If available, please provide the above information in a Microsoft compatible spreadsheet

Pursuant to Section 308 of the CWA, 33 U.S.C. § 1318, the EPA hereby requests the City to provide the information set forth in the questions above. The City is required to respond to this information request, as well as the enclosed CEI report, within 30 days of its receipt of this letter. The response should be directed to:

Ms. Sara Schiff, Enforcement Officer
U.S. Environmental Protection Agency, Region 4
Clean Water Enforcement Branch
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

The City's response to this information request should specifically reference the particular question number of the request and should be organized for the purpose of clarity. In addition, all information submitted must be accompanied by the following certification signed by a responsible City official in accordance with 40 C.F.R. § 122.22:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Failure to comply with this information request may result in enforcement proceedings under Section 309 of the CWA, 33 U.S.C. § 1319, which could result in the judicial imposition of civil or criminal penalties or the administrative imposition of civil penalties. In addition, there is potential criminal liability for the falsification of any response to the requested information.

The City shall preserve, until further notice, all records (either written or electronic) which exist at the time of receipt of this letter that relate to any of the matters set forth in this letter. The term "records" shall be interpreted in the broadest sense to include information of every sort. The response to this information request shall include assurance that these record protection provisions were put in place as required. No such records shall be disposed of until written authorization is received from the Chief of the Clean Water Enforcement Branch at the U.S. EPA, Region 4.

Based upon review of information collected during this inspection, the EPA has determined that the City violated the CWA as follows:

1. During the period of November 24, 2010, through March 28, 2014, the City had 74 SSOs that discharged untreated sewage from the City's WCTS associated with either the South WWTP or the East WWTP, as recorded on SSO report records submitted by the City to MDEQ and obtained by the EPA. The EPA also observed SSOs during the CEI in three locations and several manholes located throughout the City along Sowashee Creek and the service road leading to the East WWTP that reached navigable waters of the U.S, as defined by Section 502 of the CWA, 33 U.S.C. § 1362. Such SSOs were not authorized by the NPDES permits. SSOs that reach waters of the U.S. are violations of Section 301(a) of the CWA, 33 U.S.C. § 1311(a).
2. SSOs that reach waters of the U.S. and SSOs that do not reach waters of the U.S. are also indicative of improper operation and maintenance of the WCTS. Therefore, the City is in violation of the South WWTP Permit No. MS0020117, Condition T-28 (Proper Operation, Maintenance and Replacement), which requires the City to operate and maintain all components of the system to achieve compliance with the conditions of the permit and Permit Condition T-29 (Duty to Mitigate), which requires the City to minimize or prevent discharges from the system.
3. The East WWTP is permitted under Permit No. MS0055735, which contains the same operation, maintenance and replacement and duty to mitigate requirements as the South WWTP, but contains different permit condition numbers. Therefore, the City is also in violation of the East WWTP's Permit Condition T-27 (Proper Operation, Maintenance and Replacement) and T-28 (Duty to Mitigate).
4. The City has also failed to perform basic maintenance requirements for the Meridian South Plant, in violation of the South WWTP's Permit Condition T-27 (Proper Operation, Maintenance and Replacement). Specifically, the weir to Clarifier 2 is allowing short circuiting of the treatment process due to damaged or broken weir plates in the clarifier and one Return Activated Sludge (RAS) line is not discharging RAS properly into an aeration basin due to a ruptured RAS pipe.
5. The City has also violated the effluent limitations in its Permits on numerous occasions as indicated by the effluent exceedances listed in Enclosure B.

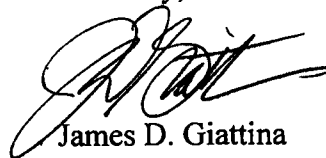
Until compliance with the CWA is achieved, the City is considered to be in violation of the CWA and subject to enforcement action pursuant to Section 309 of the CWA, 33 U.S.C. § 1319. This Section

provides for the issuance of administrative penalty and/or compliance orders and the initiation of civil and/or criminal actions.

To resolve the identified violations and discuss the EPA's possible enforcement actions, including the assessment of appropriate civil penalties, we request that representatives of the City contact Ms. Sara Schiff at (404) 562-9870 or via email at schiff.sara@epa.gov, within five business days of receipt of this letter to make arrangements for a conference. In lieu of appearing in the EPA's offices for this meeting, a telephone conference may be scheduled. The City's representatives should be prepared to provide all relevant information with documentation pertaining to the above violations including, but not limited to, any financial information, which may reflect the City's ability to pay a penalty. You have the right to be represented by legal counsel. Failure to appear may result in an immediate enforcement action against the City. The EPA may consider information provided during the meeting or telephone conference in any enforcement proceeding related to this matter.

If you should have any questions regarding this matter, please contact Ms. Sara Schiff. Legal inquiries should be directed to Ms. Tanya Floyd, Associate Regional Counsel, at (404) 562-9813 or via email at floyd.tanya@epa.gov.

Sincerely,



James D. Giattina

Director

Water Protection Division

Enclosure

cc: Mr. Hugh Smith
City of Meridian

Mr. Chris Sanders
Mississippi Department of Environmental Quality

Mr. Les Herrington
Mississippi Department of Environmental Quality

ENCLOSURE A

Compliance Evaluation Inspection Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

**Water Protection Division
Clean Water Enforcement Branch**



**WASTEWATER COLLECTION AND TRANSMISSION SYSTEM
COMPLIANCE EVALUATION INSPECTION
AND
WASTEWATER TREATMENT PLANT RECONNAISSANCE INSPECTION
REPORT**

Public Works Department

City of Meridian
Lauderdale County
Mississippi

NPDES Permit Nos. MS0055735 and MS0020117

Facility Address:

311 27th Avenue
Meridian, Mississippi 39302

Inspection Date:

April 8 - 9, 2014

Inspectors:

Dennis Sayre, EPA Region 4
Sara Schiff, EPA Region 4
Jim Harvey, MDEQ

Inspection Report Prepared by:

Dennis Sayre

April 18, 2014

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ABBREVIATIONS AND ACRONYMS

CEI	Compliance Evaluation Inspection
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	United States Environmental Protection Agency
GIS	Geographic Information System
GPM	Gallons per Minute
I/I	Infiltration/Inflow
ICIS	Integrated Compliance Information System
MDEQ	Mississippi Department of Environmental Quality
NPDES	National Pollutant Discharge Elimination System
MGD	Million Gallons per Day
MOM	Management, Operation, and Maintenance
PS	Pump Station
SORP	Sewer Overflow Response Plan
SSO	Sanitary Sewer Overflow
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

I. OVERVIEW

The Meridian Public Works Department consists of seven divisions: Engineering, Construction, Administration, Environmental, Business Operations, Water, and Wastewater. The Wastewater Division provides sanitary sewer services for residential, commercial and industrial entities within the City of Meridian (the City) and receives domestic wastewater from Meridian Naval Air Station, Key Field Air National Guard Base, the City of Marion (Population: approximately 1500), and the East Mississippi Correctional Facility that lies outside the Meridian city limits. The Wastewater Division is responsible for the operation and maintenance of two wastewater treatment facility, approximately 330 miles of sewer gravity line and force mains, 66 pump stations and other sewer related appurtenances serving approximately 40,800 residential customers within the city limits.

In March 2014, the Clean Water Enforcement Branch, EPA Region 4 received a citizen's complaint with photographic evidence and location descriptions that described a series of illicit discharges originating from the City's wastewater collection and transmission system (WCTS). Subsequently, the EPA conducted a Compliance Evaluation Inspection (CEI) of the City's sewer system on April 8 through April 9, 2014. The purpose of this CEI was to evaluate compliance with the CWA as it relates to Sanitary Sewer Overflows (SSOs) from the WCTS and to assess the City's Management, Operations and Maintenance (MOM) programs. Additionally, the purpose of this compliance inspection was to substantiate the citizen's complaint and to examine the causes and potential corrective actions for SSOs from the WCTS.

On April 8, 2014 the EPA conducted an independent reconnaissance inspection as a pre-requisite site visit of locations identified in the citizen's complaint. The City experienced 1.61 inches of rain on April 7th and 0.47 inches of rain on April 8th, according to Key Field Airport data. The EPA photographed several SSOs on April 8th. On April 9th, the EPA and the Mississippi Department of Environmental Quality (MDEQ) conducted a CEI with the City, which the EPA requested written documentation of any MOM programs that the City may use to operate and maintain the WCTS. The EPA also discussed inspection and maintenance records, interviewed management personnel and visited various sites in the WCTS, including some of the SSOs that were sighted the previous day, and two pump stations. This report describes EPA's findings, identifies areas of concern and presents preliminary recommendations.

II. OBJECTIVES

The specific objectives of the inspection were to assess the City's compliance with the CWA, evaluate reported SSOs, assess the MOM programs, where implemented, and to examine the causes of SSOs in the City's sewer system.

III. INVESTIGATION METHODS

The investigation included:

- Review of citizen's complaint;
- Review of the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES) federal database, state documents and the NPDES Permit;
- Interviews with the City's Wastewater Division personnel and Public Works Director; and,
- Visual inspection.

IV. REGULATORY SUMMARY

The MDEQ is authorized under the CWA to implement the NPDES program in Mississippi. The Meridian South Wastewater Treatment Plant (South Plant) is authorized under MDEQ's NPDES Permit No. MS0020117 (the South Permit) and the Meridian East Plant (East Plant) is authorized under the NPDES Permit No. MS0055735 (the East Permit) to discharge treated sewage into Sowashee Creek. The City is currently transitioning to a 100% re-use system by supplying 100% (or near 100%) of the flow from the combined South Plant and East Plant flow to be used as cooling water for the Southern Company power plant currently under construction in Kemper County. The East Plant outfall has been diverted to the South Plant for mixing and eventual discharge to a Southern Company power plant; however, the combined flow is currently being discharged into Sowashee Creek using the South Plant outfall until such time that the power plant construction is completed and capable of accepting flow from the City. The MDEQ is working to combine the South Plant and East Plant permits into one permit. Both NPDES permits are currently valid. Estimated tie-in, according to Meridian officials, is August 2014. The South Plant and the East Plant are both major dischargers with a combined permitted capacity of 14 million gallons per day (MGD).

The Sowashee Creek is a major tributary of the Pascagoula River in the Pascagoula River Basin and is listed on Mississippi's 2010 and 2012 303(d) list as impaired for Nitrogen and Phosphorus. MDEQ has also developed Total Maximum Daily Loads (TMDLs) for Sowashee Creek to address previous 303(d) listed impairments; including a Sedimentation TMDL and an Organic Enrichment/ Low Dissolved Oxygen TMDL.

SSOs are prohibited discharges based on Sections 301 and 402 of the CWA which generally prohibit the discharge of pollutants by any person unless authorized by an NPDES permit. The East Permit Condition No. T-27 and the South Permit Condition No. T-28 requires the City to minimize or prevent discharges. The East Permit Condition No. T-28 and the South Permit Condition No. T-29 also requires the City to operate and maintain all components of the system to achieve compliance with the conditions of the permit.

V. INSPECTION SUMMARY AND FINDINGS

The EPA performed a pre-inspection evaluation and an on-site inspection of the WCTS. The pre-inspection evaluation of the City's WCTS consisted of examining historic records submitted by the City. This section will provide a summary of both means of inspection as well as any recommendations to the City to improve the WCTS performance.

A. Management Interview

The EPA met with the City's Director of Public Works (the Director), the Utility Line Superintendent, and a MDEQ staff member at 8:00 a.m., April 9, 2014, at the City's Public Works office. Topics of discussion during the meeting included the use and documentation of any MOM programs, including Mapping, Sewer Overflow Response Plan (SORP), Preventive Maintenance Programs, Operations Programs, Continuous Sewer System Assessment Program (CSSAP), Capacity Assurance Program, and Fats, Oil, and Grease (FOG) Control. The EPA also discussed SSOs that the City may be experiencing, citizen complaints and record keeping.

The EPA discussed concerns relating to SSOs in detail with the Director and inquired about each program listed above to determine whether a formal or non-formal (not in writing) program existed to manage various maintenance and operations needs of the WCTS.

The City has its WCTS mapped in a GIS-based map that displays sewer pipe and manhole locations. The EPA did not examine the details of the GIS mapping system or what data is maintained in the GIS system except for sewer pipes and manhole locations. The City does not have an advanced GIS add-on to track detailed sewer data.

The City has also developed and implemented a SORP-like document in two separate documents titled "Emergency Response and Contingency Plan" and the "Bypass and Sanitary Sewer Overflow Reporting and Follow-up" documents. These documents include information on responding to and cleaning up an SSO, notification to MDEQ procedures, available equipment, and important contact information. These documents were not closely evaluated during the inspection but they were approved by MDEQ as a product of a previous Agreed Order between the City and MDEQ. These documents do not include guidance on estimating SSO volume.

The City has two jetter-trucks and crews. The City also has three trailer mounted bypass pumps, one camera truck, a hand-held camera, excavation and trenching equipment, spare pipes, manhole structures and fittings to respond to SSOs and perform necessary structural repairs.

The City has 66 pump stations throughout the WCTS. Of the 66 pump stations, none of the pump stations have onsite emergency back-up power. The City has three trailer mounted pumps, one or two portable emergency generator used for emergency pump station operations. The City does not appear to have formal written preventive maintenance or

operations programs, but the City demonstrated that they have a routine pump station inspection program and perform maintenance as needed.

The City does not have a formal CSSAP. The City is performing pieces of a typical CSSAP, such as periodic wet well and manhole inspections.

The City does not have any formal, written preventive maintenance programs for maintenance of the WCTS.

The City does not have a formal capacity assurance program to ensure adequate capacity in the system for new sewer connections.

The City has no formal written FOG program; however, the Public Works Department is authorized to inspect grease traps. The City's Sewer Use Ordinance sets the effluent standard for grease concentrations to be 100 mg/l maximum, businesses that exceed that concentration requires a grease interceptor or grease trap. The Public Works Department did not present any formal grease trap inspection schedule or program. The City's Line Superintendent stated that approximately 75% of the City's SSOs originate from grease related blockages.

The City has a rudimentary customer complaint system and procedures that rely on the initiation of paper work orders within the Public Works office to respond to, and address customer complaints during normal business hours. The Public Works call-in number is publicized on the City's website. Outside of normal business hours, complaint calls are received at the Drinking Water Plant. Paper work orders are entered into a basic database software system (IBM AS400 software) to track and maintain basic records; however, there are no established procedures to maintain the original customer complaint record and the database being used to track work orders is old and rather antiquated for a City of this size. Weekly reports are routed to the Director for review and copied to the Mayor and City Council.

B. SSO Observations

Discharges to waters of the United States from sanitary sewer systems are prohibited unless authorized by an NPDES permit. In addition, overflows from the sewer system that do not reach waters of the United States can be indicative of a failure to comply with the proper operation and maintenance provisions of City's permits.

An examination of the information submitted to the EPA from a concerned citizen indicated that the City is experiencing SSOs in various locations, most of which appeared to be occurring along a major trunk line that runs alongside of Sowashee Creek. This portion of the City's WCTS provides flow to the South Plant. Figure 1 shows the approximate locations of the SSOs reported via citizen's complaint.

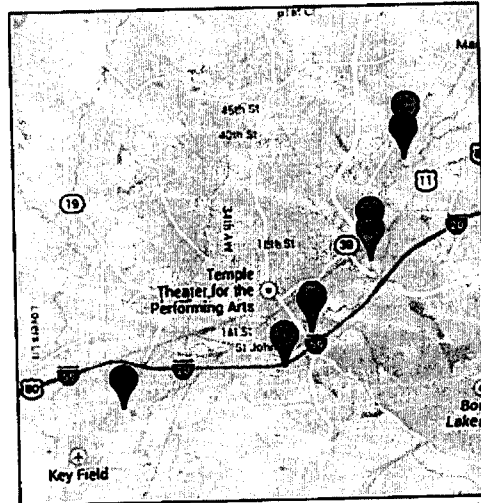


Figure 1. Orange and green pins indicate SSO locations, blue pin A is the East Plant, blue pin B is the South Plant.

Figures 2 through 6 are SSO locations discovered on April 8th and April 9th.

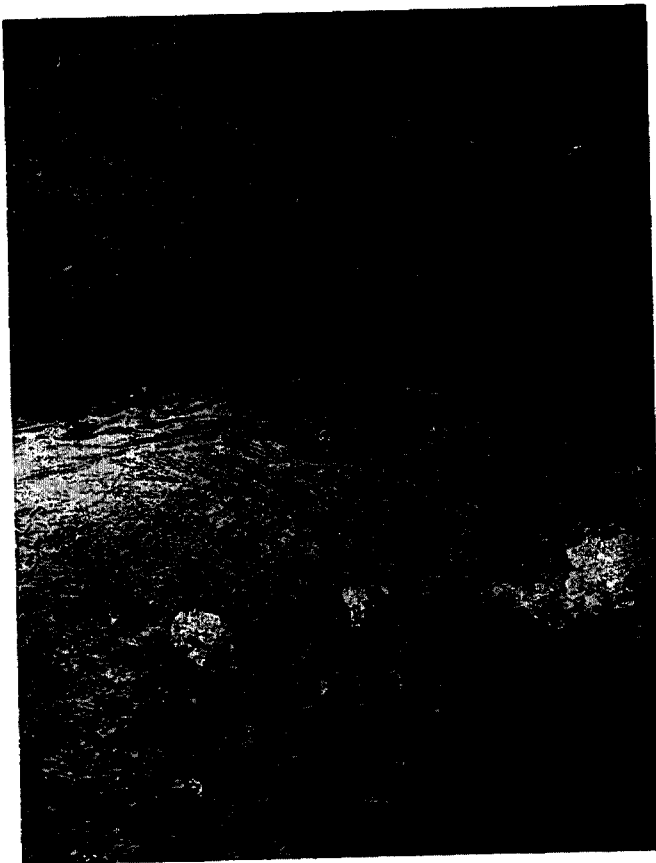


Figure 2. An SSO located on Sowashee Drive occurring on April 8, 2014. The ditch was dug by an unknown citizen, not the City (according to the City), and diverts flow from the manhole directly into a tributary creek of Sowashee Creek. The flow from the SSO would have entered the creek without the ditch. The EPA discovered three manholes on Sowashee Drive that were actively discharging.



Figure 3. This manhole is also located on Sowashee Drive and is one manhole upstream of the manhole in Figure 2. This manhole was uncovered on April 9, 2014. The surcharged condition of this manhole is 6 inches from the lid. Massive root build-up at the crown is evident.

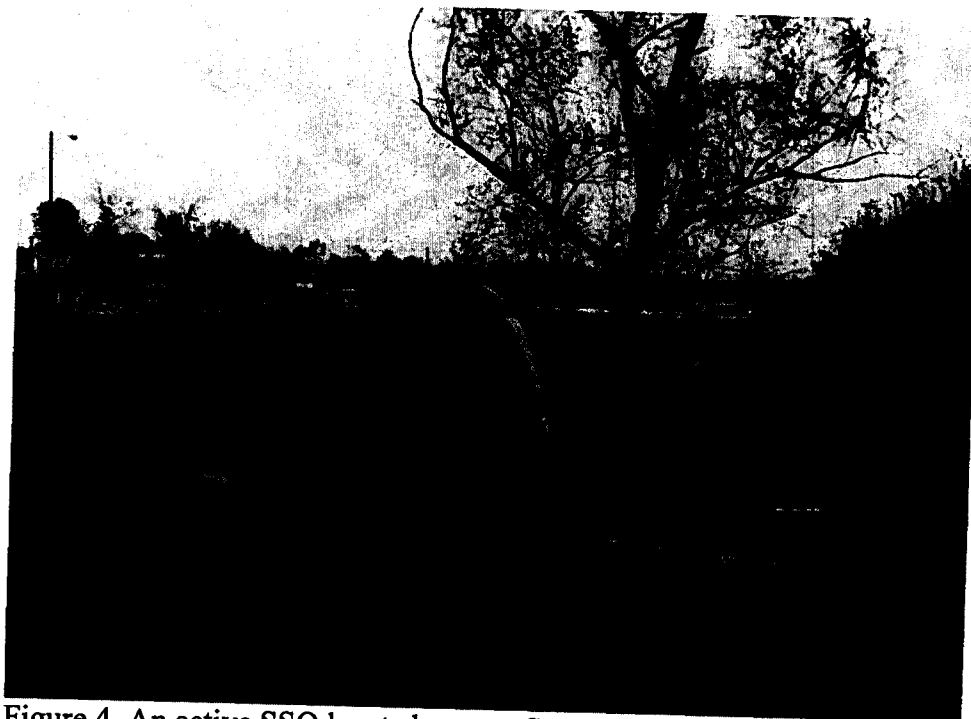


Figure 4. An active SSO located next to Sowashee Creek behind businesses near 108 U.S. Hwy 80 on April 8, 2014. The inspection team returned to this sight with MDEQ and the City and noted that the pipe was still surcharged to the top of the manhole on April 9, 2014.



Figure 5. This is the same manhole pictured in Figure 4. This manhole experienced enough pressure to blow the manhole lid off of the crown (arrow) and flows often enough, and strong enough to cut a substantial open channel to Sowashee Creek. Multiple manholes along this stretch of pipe had misplaced (but not blown off of the crown) manhole lids.

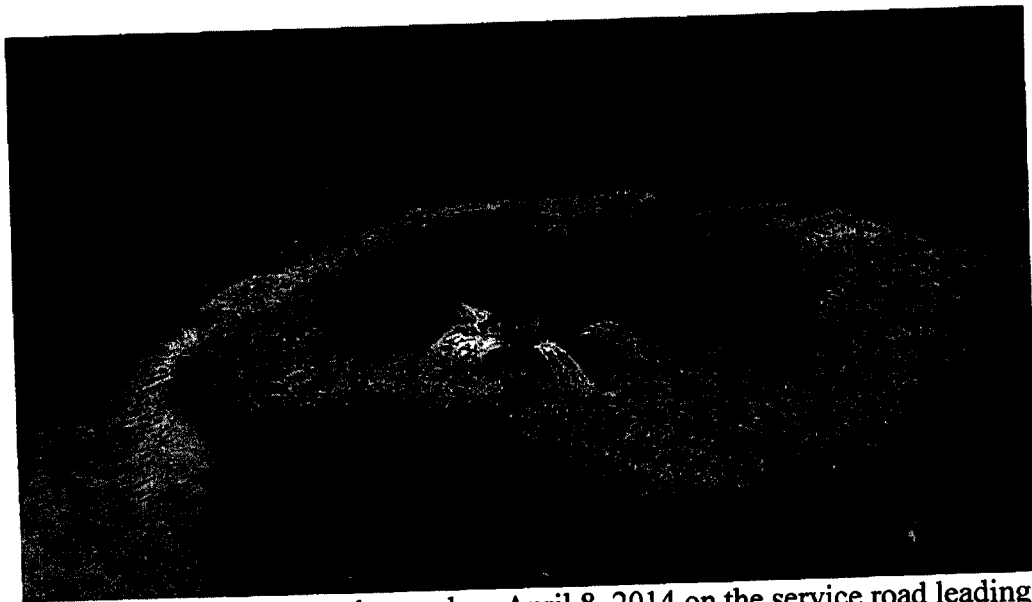


Figure 6. This SSO was observed on April 8, 2014 on the service road leading to the East Plant. The inspection team did not revisit this site with MDEQ or the City.

C. WWTP Observations

The EPA performed a Reconnaissance Inspection on April 9, 2014, accompanied by MDEQ and the Lead Plant Operator for the South Plant. The following are observations noted during inspection. The South Plant is a conventional activated sludge treatment plant. The South Plant consists of the originally designed activated sludge treatment system (the "old side") and a newer activated sludge system (the "new side") that is larger than the original design. Both treatment systems have separate biological treatment trains, including separate chlorine contact chambers, the flow from both treatment trains are blended together before the outfall.

The Mixed Liquor Suspended Solids (MLSS) in the aeration basins appeared to be thin, meaning that the biomass to liquid ratio was low (Figure 7). The Lead Operator stated that the MLSS is about 2500 mg/L. Normal range for this type of plant ranges from 2000 to 4000 mg/L, depending on the individual plant characteristics. 2500 mg/L is within acceptable book limits; however, low MLSS concentrations can lead to permit limit exceedances and it is unclear whether this plant can operate efficiently at 2500 mg/L.

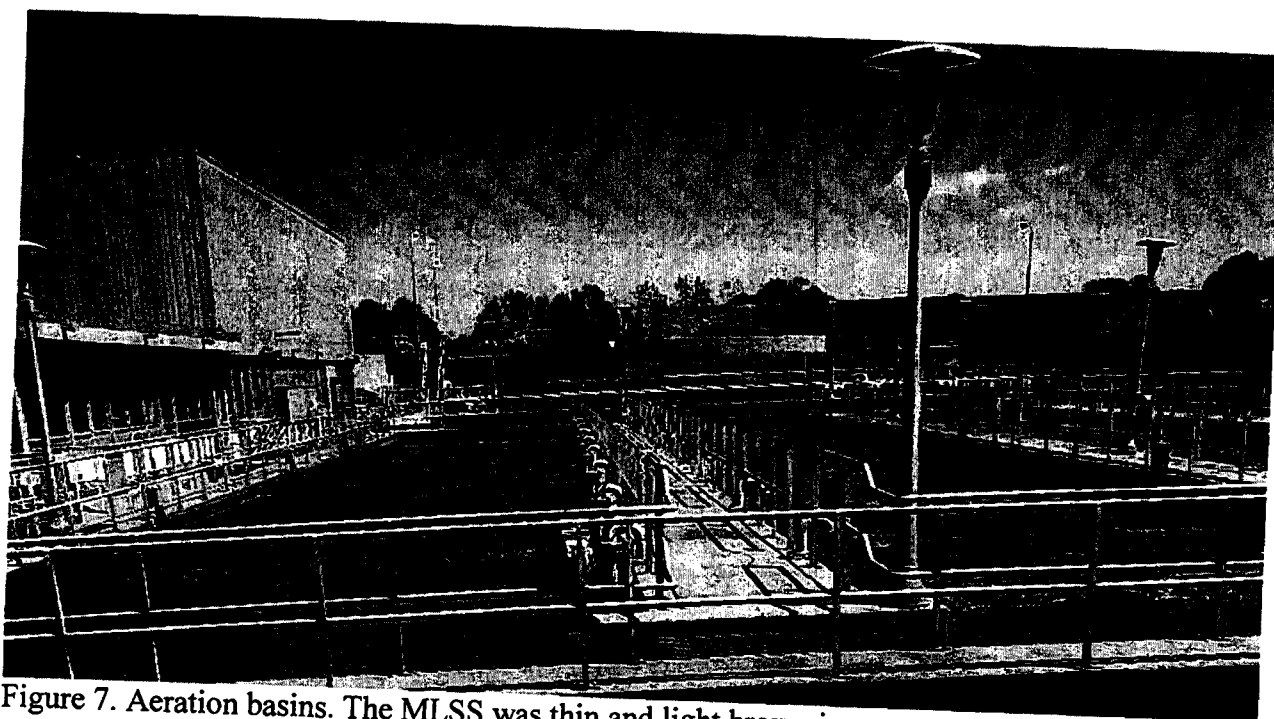


Figure 7. Aeration basins. The MLSS was thin and light brown in appearance.

A "sludge judge" was inserted into Clarifier 1 to measure the sludge blanket levels. The sludge judge measured a low sludge blanket (Figure 8). The Lead Operator stated that he had wasted solids the day before. Nominal sludge depth is determined on a case-by-case basis, but this low of a blanket is indicative of recent wasting operations.



Figure 8. A sludge judge was used to measure sludge blanket depth in Clarifier 1. Sludge depth appeared to be less than one foot in depth.

The inspection team noted several operation and maintenance issues throughout South Plant. The surface skimmers used to remove floating debris for all of the clarifiers have been removed. Removing these skimmers may not have a significant operational impact on the quality of the effluent, but solids floating in the clarifier and algae blooms reported to regularly occur during hotter seasons can cause wear and tear on the equipment. The weir for Clarifier 2 is dysfunctional and short circuiting the system (Figure 9). This type of weir separation was noted on more than one location in Clarifier 2. Significant algae build up was noted on all of the clarifier weirs.

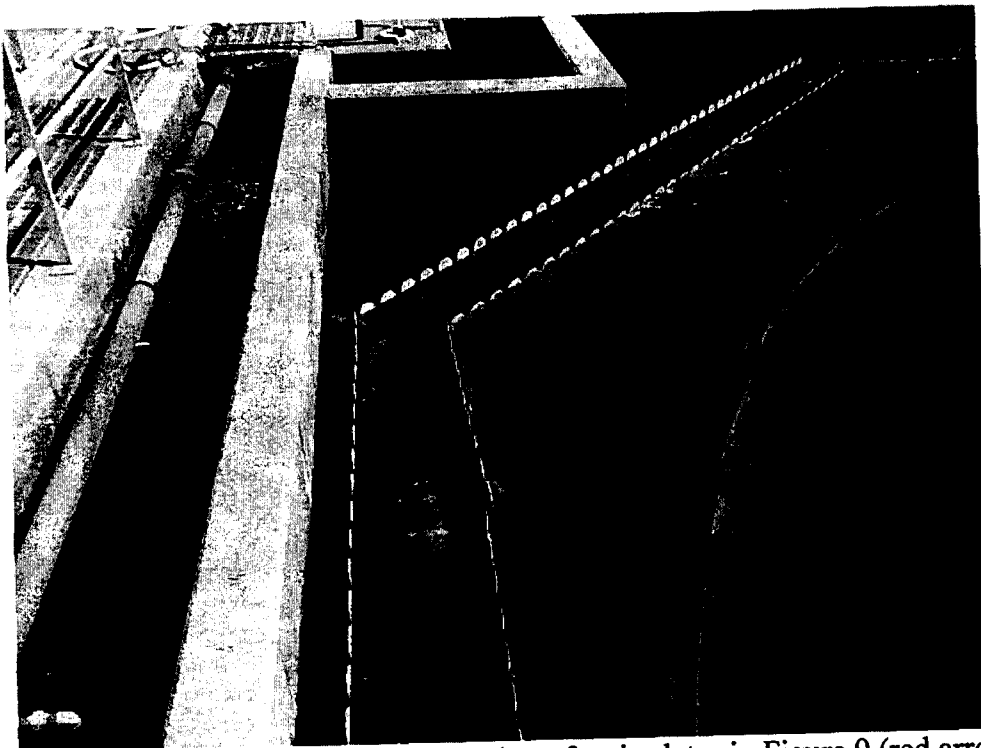


Figure 9. Clarifier 2. Note the separation of weir plates in Figure 9 (red arrow).

The inspectors noted a Return Activated Sludge (RAS) line that is broken above the aeration basin on the "new side" of the plant (Figure 10). The RAS discharging a portion of its flow above the basin may not be affecting the operations of the system, but it is indicative of improper operation and maintenance.



Figure 10. Aeration basin with dysfunctional RAS line.

The inspectors noted that the clarified effluent entering and exiting the chlorine contact chamber on the "new side" was significantly turbid (Figure 11). The flow entering and exiting the "old side" was much less turbid, but not clear.



Figure 11. Chlorine Contact Chamber for the "new side". Flow exiting the chamber was notably turbid and had an unclean appearance.

D. Conclusion

The City's personnel were courteous and appear knowledgeable about the system; however, there are some significant deficiencies noted above. The City has not developed and implemented many formal MOM programs, even though they are currently performing some of the work inclusive of the MOM programs.

The City maintains that they have knowledge of the systems wet weather capacity deficiencies. The Director stated that a pump station project is planned to redirect some to the flow that is impacting the length of pipe experiencing SSOs along Sowashee Creek to the East Plant, but the City did not provide supporting evidence that this addition will eliminate the SSOs. Deficiencies noted above are indicative of a Public Works that appears to be undermanned, underfunded and ill-equipped to properly operate and maintain a publically owned treatment system of this size and magnitude. The inspectors noted sewer manholes that were immersed in water (Figure 12 below), manhole crowns displaced from the main structure, manhole lids blown off of the crown, broken major components at the South Plant, all in the measure of less than 10 hours of inspection.



Figure 12. Manhole immersed in water.

The City should immediately take steps to address the wet weather issues in the system and repair damaged components at the South Plant. A thin MLSS at the South Plant may also be indicative of excessive Inflow and Infiltration (I/I) being introduced into the treatment process causing a low MLSS and turbid effluent. The City should immediately take steps to assess the WCTS for excessive I/I that are contributing to the wet weather SSOs and to the likelihood of excessive I/I being introduced into the WWTP.

The City should also update their software for tracking complaints and work order to better maintain records required of the regulatory community and to allow for more efficient trend analysis of the system, among other advantages. The City stated that 75% of the SSOs that occur in the system are FOG related. Given that the known wet weather SSOs are significant in number and volume, the EPA must assume that FOG related SSOs are a significant

problem causing SSOs within the City.

1. Management, Maintenance and Operations Programs

The EPA noted some preventive maintenance procedures that the City is utilizing that are in keeping with best management practices to operate and maintain the system; however, the EPA has some major concerns with regard to the City's FOG program, Capacity Assurance Program, Continued Sewer Assessment Program, Infrastructure Rehabilitation Program and other programs that should be formally adopted to properly operate and maintain this size of system. The EPA recommends that the City develop formal written programs for these preventive maintenance procedures and programs. Developing formal written programs will aid the City in refining these programs, which should increase efficiency of the programs and provide guidance for the implementation of these programs that can be passed down to the next maintenance generation.

MOM Program development guidance documents can be found on EPA, Region 4's website at <http://www.epa.gov/region4/water/wpeb/momproject/>. Recommended MOM programs include:

a. Mapping Program

Formal Mapping Program documentation should be developed to ensure consistency of map protocol and to provide official guidance for map review and maintenance. The existing GIS program should be expanded to include more sewer specific configuration data and maintenance tracking data such as pipe cleaning and inspection.

b. Grease Control Program

The EPA recommends that the City develop documents that outline procedures and provide guidance on how to manage and reduce FOG build-up in the WCTS. A valid FOG program includes providing guidance documents for permitting, inspection, enforcement, compliance tracking, budgeting, establishing inspection priorities, public education guidance and performance goals and provide specific grease control obligations for food service establishments in accordance with City ordinances. Formal FOG program development should include a review of the City's ordinances to ensure that the appropriate Public Works personnel have the ability to adequately enforce FOG related ordinances.

c. Capacity Assurance Program

The EPA recommends that the City develop a formal Capacity Assurance Program that includes specific criteria for approval of additions to the system balancing Permit requirements and the City's codes and ordinances; performance measures used to approve or deny an extension of the collection system; and procedures used to

calculate capacity in the collection system and at the treatment plant.

d. Preventive Maintenance and Inspection Programs

The EPA recommends that the City develop formal written MOM Programs with aggressive preventive maintenance, inspection and rehabilitation programs that define goals for cleaning, inspection, rehabilitation, preventive maintenance activities, including:

A Gravity Line Preventive Maintenance Program. The Gravity Line Preventive Maintenance Program should include the following components: 1) blockage abatement mechanisms (including both hydraulic and mechanical cleaning); 2) root control mechanisms; 3) debris control mechanisms, and 4) manhole preventive maintenance procedures. This program should include the following activities: 1) identification of, and provision for, all personnel and equipment needed; 2) determination of the frequency; 3) establishment of procedures; 4) establishment of priorities for scheduling; 5) the use of standard forms; 6) establishment of record keeping requirements; 7) establishment of performance measures; and 8) integration of all data collected under the program with other information management systems.

A Continuing Sewer System Assessment Program (CSSAP). The CSSAP should establish procedures for setting priorities and schedules for undertaking the WCTS assessment including: 1) corrosion defect identification; 2) routine manhole inspections; 3) flow monitoring; 4) CCTV activities; 5) gravity system defect analysis; 6) smoke testing, and; 7) pump station performance and adequacy analysis. The CSSAP should provide for the assessment of at least ten percent (10%) of the WCTS on average per year, resulting in the assessment of the entire WCTS at least once every ten years, and establish priorities and schedules taking into consideration the nature and extent of customer complaints; flow monitoring; location and cause of SSOs and WCTS deficiencies; any remediation work already ongoing; pump station run times; field crew work orders; any preliminary sewer assessments, such as flow monitoring results; community input; and any other relevant information.

A Infrastructure Rehabilitation Program (IRP). The IRP should establish procedures for setting priorities and schedules for undertaking rehabilitation of the WCTS. The IRP should address Infiltration/Inflow (I/I), structural issues in the WCTS, and the other conditions causing SSOs, with the goal of eliminating future SSOs. The IRP should take into account all previous information the City has gathered including any information gathered pursuant to the CSSAP. The IRP should also establish standard procedures to analyze the effectiveness of completed rehabilitation projects.

A Pump Station Operations and Preventive Maintenance Program. The Pump Station Operation and Preventive Maintenance Program should include or address the following items/components described below:

- i. Pump station operations at pump stations that are to be conducted on a routine, scheduled basis. The program should define the standard pump station operating procedures to be followed at each pump station such as reading and recording information from the elapsed time meters, recording information from the pump start counters, observing wet well conditions and grease accumulation, checking and re-setting, as necessary to improve system performance, wet well set points, checking and recording system pressure, checking SCADA components, checking alarms and stand-by power and identifying maintenance needs.
- ii. Emergency pump station operations procedures. The program should address pump station operations at pump stations that are to be conducted as a result of equipment failure or loss of electrical power. The program should define the emergency pump station operating procedures to be followed at each pump station such as calling for emergency maintenance, initiating stand-by power by bringing in portable generators or initiating portable pump operations for pump around.
- iii. The program should establish schedules, routes, priorities, standard forms and reporting procedures and establish minimum acceptable performance measures and condition grading criteria.

Preventive maintenance and inspection programs can have a significant positive impact on the future condition of the WCTS. A properly implemented preventive maintenance, inspection and rehabilitation programs can prevent a massive outlay of expenses needed to repair or replace parts of the system that City personnel 'did not see' failing due to the lack of prevention. Relatively small preventive maintenance expenses now can save the City larger repair expenses in the future. Formal guidance can also be used to educate City officials, such as the Mayor and City Council responsible for funding decisions and the allocation of resources essential to proper operation and maintenance of the utility.

e. Sewer Overflow Response Plan

The EPA recommends that the City update its existing SORP to include procedures for estimating SSO volumes.

ENCLOSURE B

NPDES Permits Effluent Limit Exceedances

South WWTP - MS0020117

Violation Type	Violation Information	Violation Code	Violation Date	RNC Detection Code-Date	RNC Resolution Code-Date
<u>Single Event Violation</u>	D0011 Permit Violations - Discharge Without a Valid Permit	D0011	3/15/2010	J-03/15/2010	8-08/30/2010
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C2	E90	4/30/2009		
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C2	E90	8/31/2009	X-09/14/2009	9-09/28/2009
<u>Effluent Violation</u>	001 N 00300 Oxygen, dissolved [DO] Effluent Gross Season ID:0 C1	E90	9/30/2009	X-10/22/2009	9-10/22/2009
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	9/30/2009	T-10/31/2009	2-07/31/2010
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	9/30/2009	X-10/22/2009	9-11/02/2009
<u>Effluent Violation</u>	001 N 00300 Oxygen, dissolved [DO] Effluent Gross Season ID:0 C1	E90	10/31/2009		
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	10/31/2009	T-10/31/2009	2-07/31/2010
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	10/31/2009		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C2	E90	11/30/2009	T-04/30/2010	3-08/30/2010
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C3	E90	11/30/2009		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 C3	E90	12/31/2009		
<u>Effluent Violation</u>	001 N 74055 Coliform, fecal general Effluent Gross Season ID:0 C2	E90	12/31/2009		
<u>Effluent Violation</u>	001 N 74055 Coliform, fecal general Effluent Gross Season ID:0 C3	E90	12/31/2009		
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	1/31/2010	T-01/31/2010	2-07/31/2010

South WWTP - MS0020117

Violation Type	Violation Information	Violation Code	Violation Date	RNC Detection Code-Date	RNC Resolution Code-Date
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	1/31/2010		
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	2/28/2010		
<u>Effluent Violation</u>	001 N 74055 Coliform, fecal general Effluent Gross Season ID:0 C2	E90	2/28/2010		
<u>Effluent Violation</u>	001 N 74055 Coliform, fecal general Effluent Gross Season ID:0 C3	E90	2/28/2010		
<u>Effluent Violation</u>	001 N 81010 BOD, 5-day, percent removal Percent Removal Season ID:0 C1	E90	2/28/2010		
<u>Effluent Violation</u>	001 N 81011 Solids, suspended percent removal Percent Removal Season ID:0 C1	E90	2/28/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 Q2	E90	3/31/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 C2	E90	3/31/2010	V-06/30/2010	3-08/30/2010
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 C3	E90	3/31/2010		
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	3/31/2010	T-03/31/2010	2-07/31/2010
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	3/31/2010		
<u>Effluent Violation</u>	001 N 74055 Coliform, fecal general Effluent Gross Season ID:0 C3	E90	3/31/2010		
<u>Effluent Violation</u>	001 N 81010 BOD, 5-day, percent removal Percent Removal Season ID:0 C1	E90	3/31/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 Q2	E90	4/30/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 C2	E90	4/30/2010	T-06/30/2010	3-08/30/2010

South WWTP - MS0020117

Violation Type	Violation Information	Violation Code	Violation Date	RNC Detection Code-Date	RNC Resolution Code-Date
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:1 C3	E90	4/30/2010		
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	4/30/2010	T-04/30/2010	2-07/31/2010
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	4/30/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 Q2	E90	5/31/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C2	E90	5/31/2010	V-06/30/2010	3-08/30/2010
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C3	E90	5/31/2010		
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	5/31/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 Q1	E90	6/30/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 Q2	E90	6/30/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C2	E90	6/30/2010	T-06/30/2010	5-11/26/2012
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C3	E90	6/30/2010		
<u>Effluent Violation</u>	001 N 00400 pH Effluent Gross Season ID:0 C1	E90	7/31/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 Q2	E90	7/31/2010		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C2	E90	7/31/2010	T-07/31/2010	5-11/26/2012
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C3	E90	7/31/2010		
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C2	E90	6/30/2012	X-07/19/2012	9-09/05/2012

South WWTP - MS0020117

Violation Type	Violation Information	Violation Code	Violation Date	RNC Detection Code-Date	RNC Resolution Code-Date
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	6/30/2012	X-07/19/2012	9-09/05/2012
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	6/30/2012	X-07/19/2012	9-09/05/2012
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C2	E90	10/31/2012	Y-11/19/2012	9-11/26/2012
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C3	E90	10/31/2012	X-11/19/2012	9-11/26/2012
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C2	E90	12/31/2012	Y-01/17/2013	9-04/02/2013
<u>Effluent Violation</u>	001 N 01119 Copper, total recoverable Effluent Gross Season ID:0 C3	E90	12/31/2012	Y-01/17/2013	9-04/02/2013
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C2	E90	12/31/2012	Y-01/17/2013	9-04/02/2013
<u>Effluent Violation</u>	001 N 50060 Chlorine, total residual Effluent Gross Season ID:0 C3	E90	12/31/2012	Y-01/17/2013	9-04/02/2013
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C3	E90	9/30/2013		
<u>Effluent Violation</u>	001 N 00610 Nitrogen, ammonia total [as N] Effluent Gross Season ID:0 C2	E90	11/30/2013	X-01/15/2014	9-02/11/2014
<u>Effluent Violation</u>	101 A 50060 Chlorine, total residual Effluent Gross Season ID:0 C1	E90	12/31/2013	X-01/25/2014	9-02/14/2014

East WWTP - MS0055735			
Violation Type	Violation Information	Violation Code	Violation Date
<u>Effluent Violation</u>	001 A 01114 Lead, total recoverable Effluent Gross Season ID:0 C2	E90	9/30/2009
<u>Effluent Violation</u>	001 A 00310 BOD, 5-day, 20 deg. C Effluent Gross Season ID:0 Q2	E90	6/30/2011
<u>Effluent Violation</u>	001 A 00310 BOD, 5-day, 20 deg. C Effluent Gross Season ID:0 C3	E90	6/30/2011
<u>Effluent Violation</u>	001 A 00400 pH Effluent Gross Season ID:0 C3	E90	6/30/2011
<u>Effluent Violation</u>	001 A 00400 pH Effluent Gross Season ID:0 C3	E90	7/31/2011
<u>Effluent Violation</u>	001 A 00400 pH Effluent Gross Season ID:0 C3	E90	9/30/2011
<u>Effluent Violation</u>	001 A 00310 BOD, 5-day, 20 deg. C Effluent Gross Season ID:0 C3	E90	10/31/2011
<u>Effluent Violation</u>	001 A 00530 Solids, total suspended Effluent Gross Season ID:0 C2	E90	2/29/2012
<u>Effluent Violation</u>	001 A 81011 Solids, suspended percent removal Percent Removal Season ID:0 C1	E90	2/29/2012

Armstrong, Kathy

From: Schiff, Sara
Sent: Wednesday, June 04, 2014 3:14 PM
To: 'HughSmith@meridianms.org'
Subject: Agenda for Tomorrow's Show Cause Teleconference
Attachments: Meridian DMR data_4-2009 to 3-2014 NOV.xlsx; Meridian Show Cause Agenda-6-5-14.docx

Hugh-

Hope you're having a great day. I've attached an agenda for tomorrow's call. Who all will be on the call from the City? We have a limited number of lines that can call into our teleconference line, so please let me know if you'll have more than 2 calling in. Just as a reminder, the call in number is:

404.562.9928 and the access code is 629928#

I'll be leaving my desk shortly, and I have a dentist appointment before our show cause, so if you need anything, please call my cell at 404.895.7933.

Thanks,

Sara Schiff
Environmental Engineer
Clean Water Enforcement Branch
US EPA - Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
P: (404) 562-9870
F: (404) 562-9729

CONFIDENTIALITY NOTICE

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East WWTP - MS0055735			
Violation Type	Violation Information	Violation Code	Violation Date
<u>Effluent Violation</u>	001 A 01114 Lead, total recoverable Effluent Gross Season ID:0 C2	E90	9/30/2009
<u>Effluent Violation</u>	001 A 00310 BOD, 5-day, 20 deg. C Effluent Gross Season ID:0 Q2	E90	6/30/2011
<u>Effluent Violation</u>	001 A 00310 BOD, 5-day, 20 deg. C Effluent Gross Season ID:0 C3	E90	6/30/2011
<u>Effluent Violation</u>	001 A 00400 pH Effluent Gross Season ID:0 C3	E90	6/30/2011
<u>Effluent Violation</u>	001 A 00400 pH Effluent Gross Season ID:0 C3	E90	7/31/2011
<u>Effluent Violation</u>	001 A 00400 pH Effluent Gross Season ID:0 C3	E90	9/30/2011
<u>Effluent Violation</u>	001 A 00310 BOD, 5-day, 20 deg. C Effluent Gross Season ID:0 C3	E90	10/31/2011
<u>Effluent Violation</u>	001 A 00530 Solids, total suspended Effluent Gross Season ID:0 C2	E90	2/29/2012
<u>Effluent Violation</u>	001 A 81011 Solids, suspended percent removal Percent Removal Season ID:0 C1	E90	2/29/2012

**Show Cause Meeting Agenda
EPA/MDEQ/City of Meridian, Mississippi
June 5, 2014; 10:30 a.m. (Eastern)
Teleconference**

Call-In No.: 404-562-9928 (will accommodate up to 6 separate phone lines)

Passcode: 629928#

I. Introductions – (All)

II. Summary of Concerns (EPA and MDEQ)

- **Sanitary Sewer Overflows (SSOs)**
 - Unpermitted Discharges (SSOs reaching waters of the U.S.);
 - SSOs not reaching waters of the U.S. (South WWTP Permit Conditions T-28 – Proper Operation, Maintenance and Replacement and T-29 – Duty to Mitigate and East WWTP Permit Conditions T-27 – Proper Operation, Maintenance and Replacement and T-28 – Duty to Mitigate);
 - Capacity issues throughout the WCTS.
- **WWTP**
 - Basic maintenance concerns at the South WWTP;
 - East WWTP additional flow capacity.
- **Effluent Limit Exceedances**
 - See attached effluent limit exceedances spreadsheet.

III. Response to Summary of Concerns (City of Greenville)

- **Actions Taken by the City to Address EPA and MDEQ's Concerns**
- **Actions to be Taken by the City to Address EPA and MDEQ's Concerns**

IV. Discussion of Resolution of Concerns (EPA)

V. Any Information Needs?

- **Estimated Costs of Injunctive Relief (City to provide);**
- **Estimated Start and Completion Dates of Injunctive Relief (City to provide).**

VI. Next Steps

- The City to respond to the EPA's information request letter;
- Schedule next call/meeting.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4**

Science and Ecosystem Support Division
Field Services Branch
980 College Station Road
Athens, Georgia 30605-2720

August 6, 2015

4SESD-FSB

MEMORANDUM

SUBJECT: Compliance Evaluation Inspection (CEI) Report
East Meridian POTW
SESD Project # 15-0247

FROM: Jairo Castillo, P.E. *[Signature]*
Enforcement Section

THRU: Mike Bowden, Chief *[Signature]*
Enforcement Section

TO: Maurice Horsey, Chief
Municipal & Industrial Enforcement Section
NPDES Permitting & Enforcement Branch

Please find attached the Compliance Evaluation Inspection Report conducted at the East Meridian POTW, located at 4024 Old Hwy 45N, Meridian, Mississippi. The inspection was conducted on March 19, 2015. Please contact me at (706) 355-8621 or at Castillo.Jairo@epa.gov if you have any questions or comments.

Attachment

United States Environmental Protection Agency
Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720



Compliance Evaluation Inspection Report

East Meridian POTW
4024 Old Hwy 45N
Meridian, Mississippi 39301
Inspection Date: March 19, 2015
SESD Project ID No. 15-0234

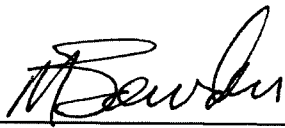
Requestor: Maurice Horsey, Chief
Municipal and Industrial Enforcement Section
Water Protection Division
U.S.EPA Region 4
Forsyth St. SW
Atlanta, Georgia 30303-8960

SESD Project Leader: Jairo Castillo, P.E.
Environmental Engineer
Enforcement Section
U.S. EPA Region 4
980 College Station Road
Athens, Georgia 30605-2720

Title and Approval Sheet

Title: Compliance Evaluation Inspection (CEI) Meridian POTW East
Meridian, Mississippi

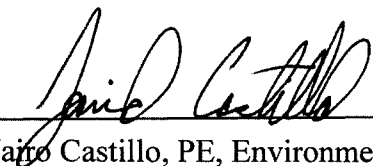
Approving Official:



Mike Bowden, Chief
Enforcement Section
Field Services Branch

8/5/15
Date

SESD Project Leader:



Jairo Castillo, PE, Environmental Engineer
Enforcement Section
Field Services Branch

8/5/15
Date

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Compliance Evaluation Investigation Report

East Meridian POTW

Meridian, Mississippi

1. INTRODUCTION

During the week March 17, 2015, representatives of the U.S. Environmental Protection Agency, Science and Ecosystem Support Division (USEPA – SEDS), conducted a Compliance Evaluation Inspection (CEI) at the East Meridian Publicly Owned Treatment Works (POTW) located at 4024 Old Hwy 45N in Meridian, MS. The CEI was performed at the request of the NPDES Permitting and Enforcement Branch, USEPA Region 4, as a follow-up inspection after the South Meridian POTW Reconnaissance Inspection conducted on April 8-9, 2014 by the Region 4 Water Protection Division.

The following personnel participated in the sampling inspection:

<u>Name</u>	<u>Organization</u>	<u>Telephone</u>
Jairo Castillo	USEPA–SESD, Inspector	(706) 355-8621
Bill Simpson	USEPA–SESD, Inspector	(706) 355-8748
Derek Little	USEPA–SESD, Inspector	(706) 355-8717
Sara Lee	Meridian POTW- Chief Operator	(601) 484-5392
Terry W. Cook, Jr.	Meridian, Chief Utility Operator	(601)-484-1815

2. BACKGROUND

The East Meridian POTW is located in the City of Meridian in Lauderdale County, Mississippi. The Plant is located approximately 5 miles toward the east of the South Meridian POTW. The South and East Meridian POTWs had a combined NPDES Permit No. MS0020117.

The East Meridian POTW mainly serves the residential areas of a Naval Air Station (NAS). The plant design flow is 1.5 MGD. The facility's average effluent discharge was approximately 0.230 MGD. The plant consisted of a Headworks that included a micro screening and grit removal system, two sequencing batch reactors (SBRs), aerobic digester, an ultraviolet disinfection system, and an equalization basin.

On February 6, 2014, the City of Meridian asked the Mississippi Department of Environmental Quality (MSDEQ) to terminate the East Meridian POTW NPDES Permit No. MS0055735. See appendix B for copies of correspondence between Meridian and MSDEQ. The East Meridian POTW removed the discharge pumps and piping that allowed for discharge into the Sowashee Creek and can only internally discharge to the Mississippi Power Company (MPC Kemper Facility) passing through the new South Plant pump station or by gravity flow back to the South Plant to discharge into Sowashee Creek through the combined outfall 002, under permit MS0020117. Since October 2014, the East Plant transitioned into a 100% re-use of its treated effluent into the Mississippi Power Plant for water cooling use.

3. SUMMARY

The purpose of this study was to evaluate the overall maintenance and operation of the plant's treatment systems and review the records and historical data relevant to plant operations associated with permit conditions. SEDS reviewed the treatment processes and facility conditions, permit conditions, records, flow measurement system, sludge handling procedures and NPDES sampling.

There were no discrepancies noted between the self-monitoring data and the data reported in the Discharge Monitoring Reports (DMRs). Calibration records were performed using a pencil instead of a permanent ink pen. The influent sampling deficiencies observed may affect the sampling results. Sample preservation techniques used for ammonia, total nitrogen, and phosphorus analyses may affect the data reported in the Discharge Monitoring Reports (DMRs). Steps should be made to correct these deficiencies and improve the accuracy of the DMRs analytical results. The collection system that served the wastewater treatment plant is impacted by high inflow and infiltration problems with frequent sanitary sewer overflows (SSOs). The appropriate corrective actions are included in the following sections of this report.

4. FACILITY SITE REVIEW

The East Meridian POTW is a 1.5 MGD (design) activated sludge wastewater treatment plant. The treatment train consisted of preliminary treatment (micro screening and grit removal) followed by two 80,000 gallon sequencing batch reactors (SBRs), one ultraviolet disinfection system and a lined equalization basin (See Figure 1, Page 6). The treated wastewater was discharged to the Mississippi Power Company (MPC Kemper Facility) through the South Meridian POTW Kemper Pump Station or by gravity flow back to the South Plant to discharge treated sewage into Sowashee Creek under the combined outfall 002.

Figure 1 shows the facility layout and Figure 2 shows the East and South Meridian POTWs locations related to the Mississippi Power Kemper IGCC Facility.

Figure 1: East Meridian POTW Location

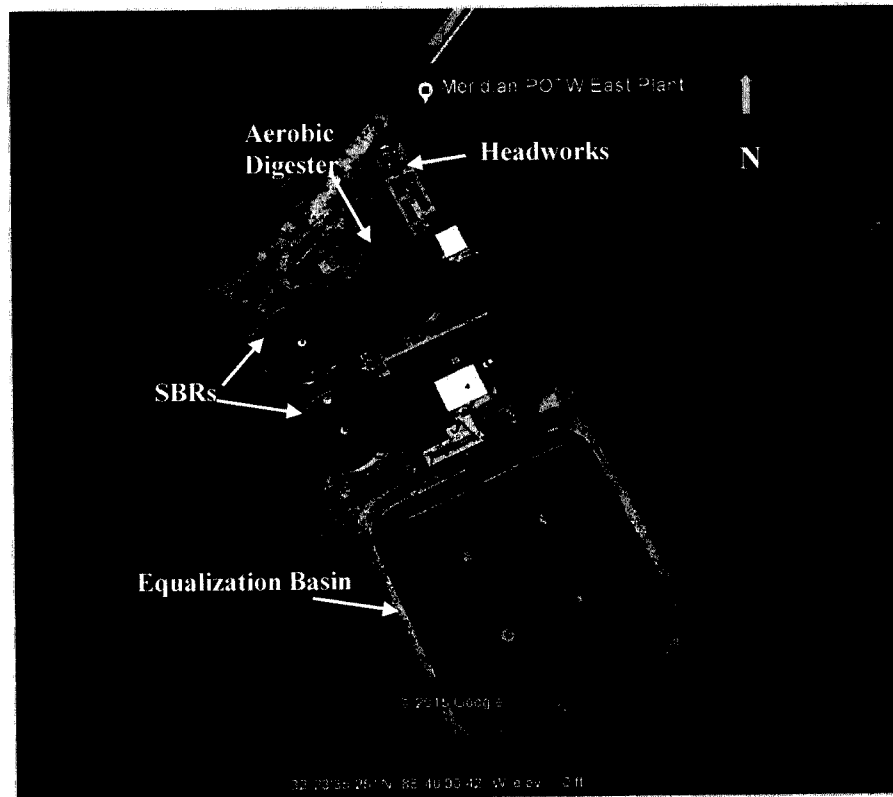
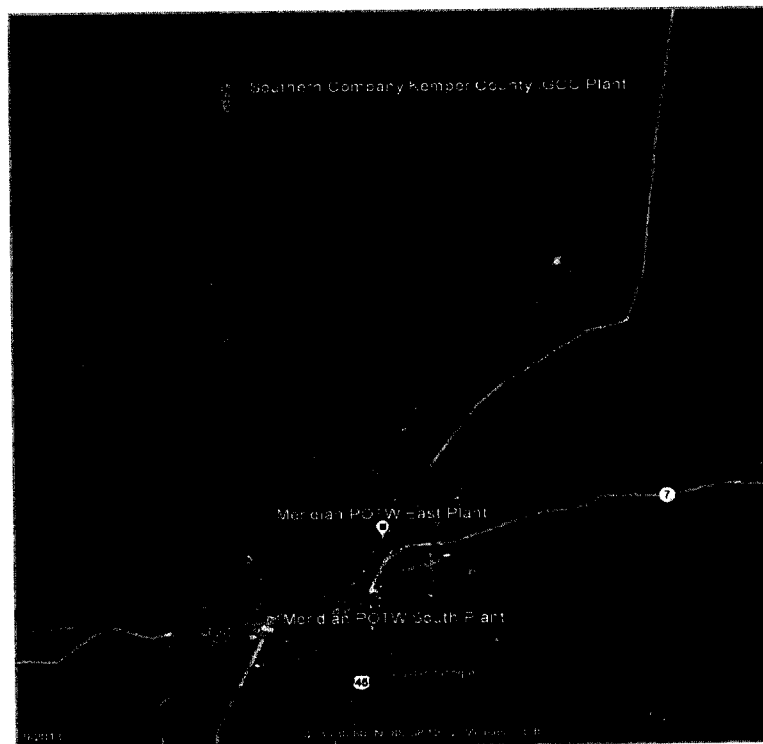


Figure 2: Locations of Kemper Coal Plant, South, and East Meridian POTWs



5. PERMIT

The NPDES permit No. MS0020117 became effective on November 1, 2013 and expired on October 31, 2018. The name of the outfalls and the name of the receiving waters were as described in the permit. The East Meridian POTW is authorized to discharge into the internal Outfall 201 that is used by the Mississippi Power (Kemper) Plant or by gravity to the South Meridian POTW to discharge into Sowashee Creek.

On February 6, 2014, the East Meridian POTW Directors submitted a letter to the Mississippi Department of Environmental Quality requesting the termination of NPDES Permit No. MS0055735 due to the discontinuation of the plant's direct discharge into the Sowashee Creek. Permit MS0055735 was terminated on May 16, 2014.

6. RECORDS AND REPORTS

Self-monitoring records consisted of the following:

- discharge monitoring reports (DMRs)
- monthly operating reports (MORs)
- daily operational sheets
- calibration records
- analytical data reports

The self-monitoring records were kept for a minimum of three years. Two observations were noted.

Observations:

- The calibration records were conducted using a pencil instead of a permanent ink pen.
- Data entries corrections were not cross marked and/or initiated.

Recommendations:

- Procedures for correction of data entry errors should be defined.
- Original data entries should be readable and the individual(s) making the corrections should be clearly identified.

Regulatory Requirement and Guidelines: 40 CFR Part 122.41 (j)(1)(2)(3) *Monitoring and Records*. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The NPDES Compliance Inspection Manual states on pgs. 7-10 & 7-11 the following: An analytical laboratory must have a system for uniformly recording, correcting, processing, and reporting data.

7. FLOW MEASUREMENT

The facility influent flow was measured by an 8" inline magmeter (Model AM 325DM). The facility's effluent flow was also measured by an inline magmeter. The effluent flow meter was calibrated on a yearly basis. No primary flow measurement system was observed at the plant.

8. OPERATIONS AND MAINTENANCE

One certified class II operator and one trainee staffed the WWTP approximately eight hours per day, five days per week, and several hours on weekends. Maintenance activities were performed by the operators, maintenance staff, or contractors as needed. The WWTP has been affected by infiltration/inflow problems, with an estimated increase in influent flow of 300,000 to 500,000 gallons during rainfall events (See Photo 1, page 12). One deficiency was noted.

Deficiency:

- The mechanical aerator of the sludge digester was out of service (See Photo 3, page 8).

Regulatory Requirement: The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the permittee to achieve compliance with the conditions of this permit (*40 CFR, Part 122.41, (e) and NPDES Permit MS0020117 Narrative Requirements: T-28*).

Suggestion:

- The mechanical aerator propeller must be repaired as soon as possible.
- The city should establish plans to correct infiltration/inflow problems in order to reduce and eliminate SSOs.

9. SLUDGE HANDLING

The East Meridian POTW produced approximately fourteen wet metric tons of sludge per month from the plant's regular operation. The sludge is classified as Class B sludge. Sludge is treated in an 80,000-gallon aerobic sludge digester followed by dewatering in a belt filter press. The chief operator stated that the belt filter press is used approximately ten times per year. Breaux Services Incorporated disposes treated sludge by land application. Breaux Services operates a land farm that is authorized by Permit No. SW0350030431.

10. SAMPLING REVIEW

The permittee collected samples according to the sampling frequencies and sample types described in the permit. Effluent grab samples were collected for pH and dissolved oxygen (DO).

Table 1 describes the composite samples collected at the plant's influent and effluent locations.

Table 1: Composite Sample Collection and Parameters

Location	Equipment (Parameters/Temperature)	Aliquot	Interval
Influent (Collected at headworks)	Composite Samples collected using an ISCO 6712 refrigerated automatic sampler for CBOD ₅ and TSS, composite samples temperature- 5°C	75 ml	Composite sample- 24 hr period
Outfall 201 (effluent, collected after final treatment)	Composite Samples collected using an ISCO 6712 refrigerated automatic sampler for CBOD ₅ , TSS, TN, TP, composite samples temperature- 5°C	240 ml	Composite sample- 8 hr period

During the inspection, the plant operator conducted a settlometer test. The test results were 200 ml/L for both diluted and undiluted tests. Settlometer test results under 300 ml/L showed a rapid settling rate, associated with an older over-oxidized sludge.

Several deficiencies were noted during the inspection.

Deficiency:

- The influent automatic sampler collected 75 ml per sample aliquot. The amount collected was less than the required 100 ml sample aliquot for peristaltic automatic samplers.

Regulatory Requirement: 40 CFR Part 122.41 (J)(1). *Monitoring and Records.* Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. For peristaltic automatic samplers, the individual sample aliquots must be at least 100 ml (NPDES, Compliance Inspection Manual, 2004).

Deficiencies:

- The influent composite sampler tubing appeared clogged.
- The phosphorus and ammonia-nitrogen samples collected at the plant were preserved with sulfuric acid (H₂SO₄) at the South Meridian POTW laboratory, approximately one to two hours after the time of collection. Samples should be preserved immediately after collection.

Regulatory Requirement: 40CFR part 122.41 (j) (1), Monitoring and Records: Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The influent automatic sampler tubing should be properly maintained. The intake line should be checked regularly for rags and other debris that can cause clogging problems. Nutrients (total nitrogen, ammonia, phosphorus, etc.) samples should be preserved immediately after collection (40 CFR Part 136.3 Table IB, Standards Methods: Methods 4500-N_{org}, 4500-P, and 4500-NH₃).

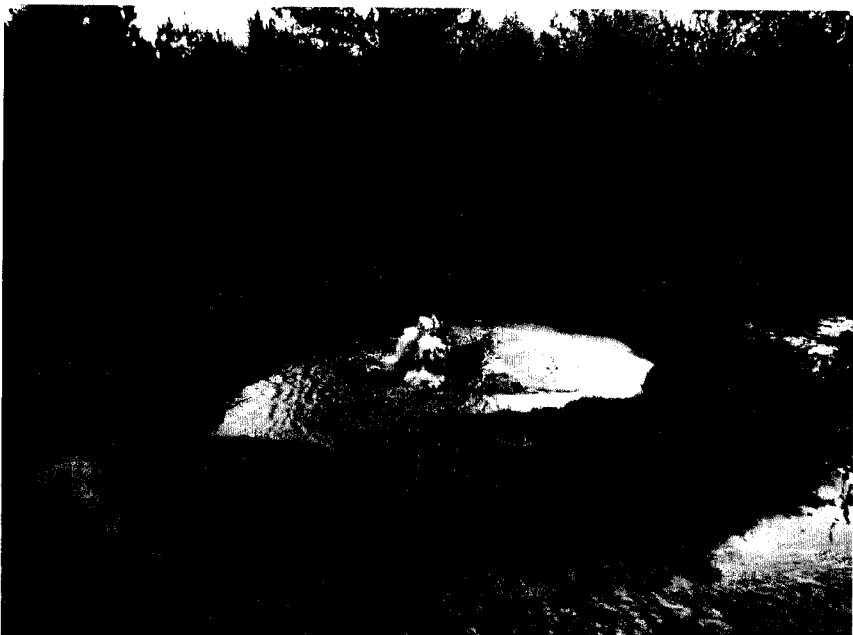
11. EFFLUENT AND RECEIVING WATERS

The final effluent was clear. There were no visible solids, oil sheens, or foam observed in the final effluent. At the time of the inspection, the East Meridian POTW was no longer directly discharging its effluent into the Sowashee Creek.

Appendix A: Photographic Log

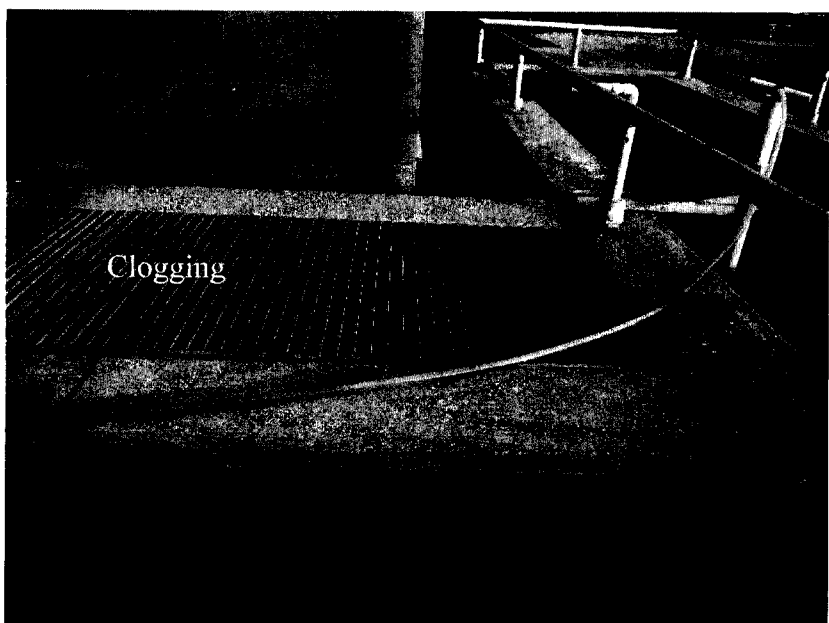


PHOTOGRAPHIC LOG

Photo taken by: Jairo Castillo		Project Name: 15-0234 – East Meridian POTW Compliance Evaluation Inspection
Photo No: 1	Date: 03/18/2015	
Direction Photo Taken: East		
Description: View of a sanitary sewer overflow, located northeast from the East Meridian POTW.		




PHOTOGRAPHIC LOG

Photo taken by: Jairo Castillo		Project Name: 15-0234 – East Meridian POTW Compliance Evaluation Inspection
Photo No: 2	Date: 03/18/2015	
Direction Photo Taken: North		
Description: View of the influent automatic sampler tubing. Tubing needed to be replaced.		




PHOTOGRAPHIC LOG

Photo taken by: Jairo Castillo		Project Name: 15-0234 – East Meridian POTW Compliance Evaluation Inspection	
Photo No: 3	Date: 03/18/2015		
Direction Photo Taken: North			
Description: View of the aerobic digester. The mechanical aerator propeller needs to be repaired.			



PHOTOGRAPHIC LOG

Photo taken by: Jairo Castillo		Project Name: 15-0234 – East Meridian POTW Compliance Evaluation Inspection	
Photo No: 4	Date: 03/18/2015		
Direction Photo Taken: South			
Description: View of Settrometer test results. Results were 200 ml/l for both diluted and undiluted tests.			

Appendix B: Correspondence

MERIDIAN

CITY OF MERIDIAN

FILE COPY

A better longitude on life. February 6, 2014

Mayor:

PERCY BLAND, III
(601) 485-1927
FAX: (601) 485-1911

Council Members:

GEORGE M. THOMAS
Ward 1

K. DUSTIN MARKHAM
Ward 2

BARBARA HENSON
Ward 3

KIM HOUSTON
Ward 4

RANDY HAMMON
Ward 5

COUNCIL CLERK
(601) 485-1959
FAX: (601) 485-1913

CITY DEPARTMENTS:

Chief Administrative Officer:
(601) 485-1929
FAX: (601) 485-1911

Community Development:
(601) 485-1910
FAX: (601) 484-6813

Finance and Records:
(601) 485-1946
FAX: (601) 485-1979

Fire:
(601) 485-1922
FAX: (601) 485-1035

Homeland Security:
(601) 484-8890
FAX: (601) 484-6895

Parks and Recreation:
(601) 485-1802
FAX: (601) 485-1851

Police:
(601) 485-1841
FAX: (601) 484-6832

Public Works:
(601) 485-1920
FAX: (601) 485-1864

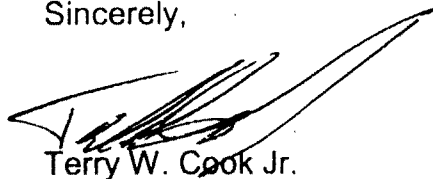
Mr. Bradley Crane
Mississippi Department of Environmental Quality
Environmental Permits Division
P.O. Box 2261
Jackson, MS 39225-92261

Dear Mr. Crane:

RE: East Meridian POTW
NPDES Permit # MS0055735
Lauderdale County

The East Meridian Wastewater Treatment Plant is no longer able to discharge to Sowashee Creek. The last time of discharge on permit MS0055735 was November 08 2013. During the rest of November and December the discharge pumps and piping that allowed for discharge to the creek were removed. The East Meridian plant can only internal discharge to Kemper (Coal Plant) or down to (Main) Meridian Wastewater Treatment plant to discharge into Sowashee under permit MS0020117. I am requesting that permit MS0055735 be terminated. If you have any questions, you may contact me at 601 485-1815.

Sincerely,



Terry W. Cook Jr.
Chief Utility Plant Operator, Wastewater Treatment Plant

cc: Percy Bland, Mayor
Mike McGrevey, CAO
Hugh Smith, Public Works Director



FILE COPY

STATE OF MISSISSIPPI
PHIL BRYANT
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
TRUDY D. FISHER, EXECUTIVE DIRECTOR

May 16, 2014

Mr. Terry Cook Jr.
East Meridian POTW
PO Box 1430
Meridian, Mississippi 39302-1430

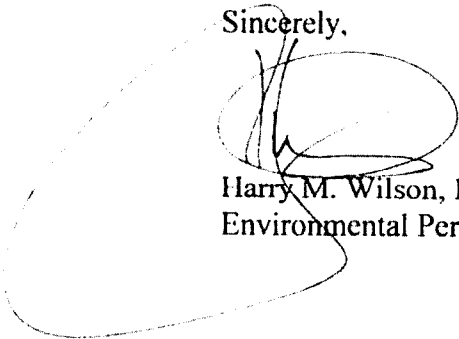
Dear Mr. Cook

Re: East Meridian POTW
Lauderdale County
Water Ref. No. MS0055735

The Environmental Permits Division is in receipt of your written request for termination of the above referenced environmental permit. It is our understanding that closure in accordance with the Closure Plan you submitted to our office is complete. Please be advised that as per the date of this letter, the above referenced environmental permit is hereby revoked.

If you have any questions regarding this matter or any future environmental permitting matters, please contact Jake Wallace at (601) 961-5171.

Sincerely,



Harry M. Wilson, P.E., DEE, Chief
Environmental Permits Division

cc:

SESD Project ID No. 15-0234
13262 PER20090001

END OF REPORT

MERIDIAN

CITY OF MERIDIAN

A better longitude on life.

July 31, 2014

Mayor:

PERCY BLAND, III
(601) 485-1927
FAX: (601) 485-1911

Council Members:

GEORGE M THOMAS
Ward 1

K. DUSTIN MARKHAM
Ward 2

BARBARA HENSON
Ward 3

KIM HOUSTON
Ward 4

RANDY HAMMON
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FAX: (601) 485-1851

Police:
(601) 485-1841
FAX: (601) 484-6832

Public Works:
(601) 485-1920
FAX: (601) 485-1864

Sara Schiff
Environmental Engineer
Clean Water Enforcement Branch
US EPA – Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

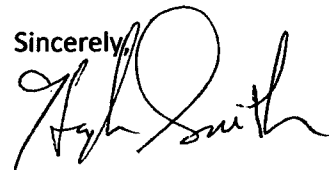
Dear Ms. Schiff:

While attempting to compile a comprehensive listing of SSO's, which was included in our response letter dated July 18, 2014, discrepancies were identified among the City's list of SSO's, the Mississippi Department of Environmental Quality's (MDEQ) list of SSO's, and the SSO Reporting Forms provided to MDEQ. The City of Meridian is committed to providing your agency with the most accurate data possible from the three sources of information referenced.

Therefore, subsequent to the submittal of our July 18th response letter, we continued an exhaustive effort to collect and compile all available SSO data in order to generate a true comprehensive finalized listing of SSO events. As indicated in our July 18th response letter, please accept the attached spreadsheet as the complete and final list of SSO occurrences from September, 2008 through May 6, 2014.

We look forward to the opportunity to convene face to face and discuss the most appropriate approach for improving our city's wastewater system.

Sincerely,



Hugh Smith
Public Works Director

HS/ph

Attachment

601 23rd Avenue
Post Office Box 1430
Meridian, MS 39302-1430
www.meridianms.org

2014 AUG 04 14:08 CWE



City of Meridian, Mississippi
List of SSOs from September 2008 to May 6, 2014

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/12/2009			NOT AVAILABLE	12/29/2008	NOT AVAILABLE	1/12/2009	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	15,000,000	DUE TO CONTINUOUS RAINY DAYS, PLANT REACHED MAXIMUM TREATMENT CAPACITY SO EXCESS WAS DIVERTED TO EQ BASINS	ONCE THE INCLEMENT WEATHER SUBSIDED, INFLUENT FLOW DECREASED AND PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	RECORDED FROM NPDES EXCEEDANCE LETTER TO MDEQ
3/20/2009	✓		6AM	3/16/2009	4PM	3/16/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	6,500	POWER OUTAGE AT WASTEWATER TREATMENT PLANT & RAINFALL OF 2 INCHES	MS POWER HAD ELECTRICAL COMPONENTS SHIPPED OVERNIGHT TO CORRECT PROBLEM	PARTS INSTALLED BY MS POWER	
3/23/2009	✓		3PM	3/18/2009	6PM	3/20/2009	WEST OF 29TH AVENUE & NORTH OF ST. PAUL STREET, IN THE WOODS	HOLE IN PIPE	SOWASHEE CREEK	12,000	HOLE IN PIPE, COLLAPSED PIPE	DEBRIS REMOVED FROM PIPE WITH FLUSH TRUCK, CHLORINE TABLETS ADDED TO OVERFLOW	COLLAPSED PIPE REPAIRED	
5/4/2009	✓		NOT AVAILABLE	3/16/2009	NOT AVAILABLE	4/7/2009	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	160,000	I&I, FAILURE OF PIPE DOWN STREET THAT BLOCKED & RESTRICTED FLOW - 4.5 INCHES OF RAINFALL	MISCELLANEOUS LINE REPAIRS ON 24" PIPE. CREW CLEANED UP DEBRIS AND LIME WAS SPREAD OVER ENTIRE AREA	PLAN TO UPGRADE 24" LINE TO 36" LINE TO PREVENT FUTURE SSOs.	CITY OF MERIDIAN BYPASS REPORT INCLUDED SUPPLEMENTAL REPORT OF EVENT
INFO NOT AVAILABLE	✓		10:30AM	5/15/2009	2PM	5/15/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	85,000	EXCESSIVE RAINFALL - 3.5 INCHES TO 4 INCHES	DEBRIS REMOVED AND DISINFECTED AREA	NO INFORMATION PROVIDED	
1/14/2010	✓		10:30AM	12/18/2009	2PM	12/21/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	170,000	EXCESSIVE RAINFALL - 3.5 INCHES TO 4 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
1/8/2010			NOT AVAILABLE	12/17/2009	NOT AVAILABLE	1/8/2010	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	19,430,000	DUE TO CONTINUOUS RAINY DAYS AND PORTION OF MAIN PLANT BEING OFFLINE, PLANT WAS FORCED TO DIVERTED PORTION OF NORMAL FLOW TO EQ BASINS	ONCE PORTION OF MAIN PLANT WAS BROUGHT BACK ONLINE, PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	RECORDED FROM NPDES EXCEEDANCE LETTER TO MDEQ
1/19/2010	✓		12PM	1/13/2010	10AM	1/14/2010	FRED CLAYTON ROAD	PRESSURE LINE	LOST HORSE CREEK	290,000	BROKEN LINE	REPAIRED LINE	REPAIRED LINE	
1/24/2010	✓		NOT AVAILABLE	2/21/2010	NOT AVAILABLE	2/24/2010	4001 NEWELL ROAD	MANHOLE	SOWASHEE CREEK	170,000	GREASE AND ROOTS IN MANHOLE, 3+ INCHES OF RAIN AND 4 INCHES OF SNOW	FLUSHED LINE	CLEANED ROOTS FROM MANHOLE AND REPAIRED PIPE	
2/22/2010			NOT AVAILABLE	FEB. 2010	NOT AVAILABLE	2/22/2010	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	21,000,000	PART OF MAIN PLANT OFFLINE DUE TO PUMP REPAIRS, RESULTING IN DIVERSION TO EQ BASINS	ONCE PORTION OF MAIN PLANT BROUGHT BACK ONLINE FOLLOWING INSTALLATION OF NEW MOTOR ON PRIMARY SLUDGE PUMPS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	RECORDED FROM NPDES EXCEEDANCE LETTER TO MDEQ
3/15/2010	✓		MIDNIGHT	3/10/2010	NOT AVAILABLE	NOT AVAILABLE	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	75,000	EXCESSIVE RAINFALL - 2+ INCHES	CITY CREWS WORKING ON PROBLEM AT CHIP MILL	PLANS ARE BEING PUT IN PLACE TO INCREASE CAPACITY IN LINE	
3/23/2010	✓		MIDNIGHT	3/10/2010	9:45AM	3/16/2010	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	95,000	EXCESSIVE RAINFALL - 2+ INCHES	CITY CREWS WORKING ON PROBLEM AT CHIP MILL	PLANS ARE BEING PUT IN PLACE TO INCREASE CAPACITY IN LINE	
3/15/2010	✓		2:33PM	3/12/2010	7PM	3/15/2010	HWY 45 & HWY 39	RAISED MANHOLE	SOWASHEE CREEK	200,000	HIGH RAINFALL & MANHOLE INFILTRATION	REPAIR MANHOLE	CITY CREWS WORKING ON CHIPMILL PROBLEM	
3/24/2010			11AM	3/24/2010	2PM	3/24/2010	SOWASHEE STREET (BEHIND MISSISSIPPI MUSIC)	MANHOLE	TRIBUTARY OF SOWASHEE CREEK	NO INFORMATION AVAILABLE	NO INFORMATION AVAILABLE	CITY CREWS COLLECTED DEBRIS, EXCAVATED AFFECTED SOIL, AND LIMED IMPACTED AREA	NO INFORMATION PROVIDED	INFORMATION RECORDED FROM MARCH 25, 2010 MEMORANDUM FROM MDEQ

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
MAR. 2010			NOT AVAILABLE	MAR. 2010	NOT AVAILABLE	MAR. 2010	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	51,050,000	DUE TO CONTINUOUS RAINY DAYS AND PORTION OF MAIN PLANT BEING OFFLINE, PLANT WAS FORCED TO DIVERTED PORTION OF FLOW TO EQ BASINS	ONCE PORTION OF MAIN PLANT WAS BROUGHT BACK ONLINE, PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	
11/24/2010	✓	✓	7AM	11/24/2010	10:30AM	11/24/2010	26TH STREET/2606 EDGEWOOD DRIVE	MANHOLE	SOWASHEE CREEK	80,000	ROOTS IN MANHOLE	FLUSH TRUCK 'SHOT LINE' & OPEN IT	CREW CUT ROOTS OUT OF MANHOLE	FULL REPORT INCLUDES PICTURES
1/13/2011	✓		3AM	1/7/2011	8AM	1/7/2011	3900 OLD HWY 45 N.	MANHOLE	UNSPECIFIED	40,000	POWER FAILURE AT PLANT	RESET MAIN POWER BREAKER	NEW GROUND TO BLOWER MOTOR	
2/10/2011	✓	✓	NOT AVAILABLE	1/31/2011	NOT AVAILABLE	2/10/2011	HILLCREST DRIVE/BROADHEAD PROPERTY	MANHOLE	UNSPECIFIED	25,000	TREE ROOTS	SPREAD LIME OVER AREA	PLANS TO REPLACE MANHOLE & REMOVE TREE THIS WEEK - WEATHER PERMITTING	FULL REPORT INCLUDES PICTURES
2/15/2011	✓		1PM	2/11/2011	9AM	2/14/2011	HYUNDAI HWY 39	MANHOLE	SOWASHEE CREEK	4,000	GREASE IN MANHOLE	FLUSHED LINES	RED HOT COMPOUND USED TO CLEAN LINE	
2/17/2011	✓		10:30AM	2/17/2011	11:30AM	2/17/2011	SHUMATE ROAD	MANHOLE	UNSPECIFIED	300	GREASE BLOCKAGE	FLUSHED LINES, RED HOT COMPOUND USED TO CLEAN LINE	LOCATION ADDED TO A BI-WEEKLY FLUSHING SCHEDULE	
3/10/2011	✓	✓	10PM ON SSO, 2AM CITY	3/8/2011	2AM	3/9/2011	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	8,400	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/10/2011	✓	✓	8PM	3/8/2011	6PM	3/10/2011	HWY 11/80 & RUSSELL DRIVE ON 8 INCH LINE THAT CONNECTS TO A 24 INCH LINE. BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	229,950	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/10/2011	✓	✓	8PM	3/8/2011	6PM	3/10/2011	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	65,000	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/24/2011			NOT AVAILABLE	3/11/2011	NOT AVAILABLE	3/11/2011	SOUTH WWTP	EQ BASINS	SOWASHEE CREEK	9,800,000	PLANT WAS FORCED TO DIVERTED PORTION OF FLOW TO EQ BASINS	ONCE INFLUENT FLOW DECREASED, PLANT CEASED BYPASSING TO EQ BASINS	PLAN TO REPLACE FLEXIBLE CURTAIN IN BASIN AND DREDGING OF SOLIDS FROM WITHIN BASIN TO INCREASE CAPACITY	
4/6/2011	✓		4AM	4/4/2011	7:30AM	4/4/2011	3900 OLD HWY 45 S.	INFLUENT LIFT STATION	UNSPECIFIED	25,000	POWER FAILURE	RESET MAIN POWER BREAKER	ADJUSTED ELECTRICAL PANEL AND GROUND FAULT SENSORS	
4/29/2011	✓	✓	5PM	4/28/2011	8PM	4/28/2011	HWY 11/80 AT STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	225	1&1, 3 INCHES OF RAIN, AS WELL AS PREVIOUS RAIN IN PAST 2 WEEKS	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
7/14/2011	✓	✓	2PM	6/16/2011	2PM	7/6/2011	15TH PLACE	MANHOLE	SOWASHEE CREEK	250,000	COMBINATION OF ROOTS & GREASE, A COLLAPSED LINE	JETTED & BROKE THE BLOCKAGE, REPLACED DAMAGED LINE	REPLACED LINE	NOTIFIED OF BAD SEWER ODOR ON JULY 5, 2011
7/26/2011	✓		2PM	7/25/2011	5PM	7/25/2011	HWY 11/80 CRACKER BARREL	MANHOLE	SOWASHEE CREEK	1,800	HIGH RAINFALL OF 1.5 INCHES	CLEANED DEBRIS AND SANITIZED	NO INFORMATION PROVIDED	
7/26/2011	✓		2PM	7/25/2011	5PM	7/25/2011	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	2,700	HIGH RAINFALL OF 1.5 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
7/26/2011	✓	✓	3:30PM	7/25/2011	4:30PM	7/25/2011	56TH AVENUE @ ROYAL ROAD	MANHOLE	GALLAGHER CREEK	1,000	EXCESSIVE RAINFALL - 1 INCH	CLEANED DEBRIS (SMALL AMOUNTS OF PAPER & GREASE) & SPRAYED DISINFECTANT OVER ENTIRE AREA	NO INFORMATION PROVIDED	
11/18/2011	✓	✓	7AM	11/16/2011	1PM	11/16/2011	OLD 8TH STREET & 70TH PLACE	PUMP STATION	SOWASHEE CREEK	12,000	PUMP FAILURE	CLEANED DEBRIS & USED DISINFECTANT TO KILL BACTERIA IN THE AREA	PUMP REPAIRED	FULL REPORT INCLUDES PICTURES
11/21/2011	✓	✓	2:30PM	11/18/2011	10:30PM	11/18/2011	29TH AVENUE, SOUTH BANK, APPROXIMATELY 200 YARDS WEST OF 29TH AVENUE BRIDGE/RR	MANHOLE	SOWASHEE CREEK	48,000	CAVE-IN, STORMWATER DRAIN	DIRT REMOVED TO ALLOW SEWAGE TO FLOW, TRENCH BOX PUT INTO PLACE TO PROTECT THE LINE	LINE WILL BE REPLACED WITH A LARGER LINE	FULL REPORT INCLUDES PICTURES
12/2/2011		✓	10AM	11/30/2011	1AM	12/1/2011	29TH AVENUE @ RR	MAIN LINE	SOWASHEE CREEK	700,000	PUMP FAILURE & SEPARATION IN LINE	SWITCHED OUT PORTABLE PUMP, REPAIRED LINE, LIME WAS SPREAD OVER ENTIRE AREA	REPAIRED LINE AND SWITCHED OUT PUMP	FULL REPORT INCLUDES PICTURES

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/3/2012	✓	✓	10AM	12/29/2011	2:30PM	12/29/2011	11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	5,400	GREASE BLOCKAGE	GREASE REMOVED BY FLUSH TRUCK, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/27/2012	✓		10AM	1/26/2012	2PM	1/26/2012	5310 OVERBROOK LANE	MANHOLE	UNSPECIFIED	10 gpm	GREASE BLOCKAGE & INFLOW	JETTED LINE TO BREAK BLOCKAGE & RESUME NORMAL FLOW, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	JETTED LINE TO BREAK BLOCKAGE & RESUME NORMAL FLOW	
1/27/2012	✓		10AM	1/26/2012	5PM	1/26/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	20 gpm	INFLOW - 3 INCHES OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/27/2012	✓		10AM	1/26/2012	6PM	1/26/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	20 gpm	INFLOW - 3 INCHES OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/27/2012	✓		9AM	1/26/2012	2PM	1/26/2012	26TH STREET & 40TH AVENUE	MAIN LINE	NO INFORMATION PROVIDED	4,500	INFLOW - 3 INCHES OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
2/3/2012	✓		8AM	1/27/2012	10AM	1/30/2012	3109 GRANDVIEW AVENUE	LINE	SOWASHEE CREEK	15 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
2/3/2012	✓		1PM	1/30/2012	2PM	1/31/2012	5525 CHEROKEE ROAD	MANHOLE	SOWASHEE CREEK	10 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
2/3/2012	✓		11AM	2/2/2012	6PM	2/2/2012	600 FRONTAGE ROAD	LINE	SOWASHEE CREEK	60 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
2/3/2012	✓		11AM	2/2/2012	5PM	2/2/2012	2900 SAINT PAUL STREET	LINE	SOWASHEE CREEK	60 gpm	BROKEN PIPE	REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	REPLACED BROKEN PIPE	
3/2/2012	✓		10AM	2/28/2012	6PM	2/28/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	9,600	INFLOW - 1 INCH OF RAIN	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
3/2/2012	✓		10AM	2/28/2012	8:30AM	2/29/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	168,750	GREASE BLOCKAGE	GREASE REMOVED BY FLUSH TRUCK, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
3/26/2012			4PM	3/21/2012	7AM	3/24/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	96,000	EXCESSIVE RAINFALL - 3.5 INCHES	WORK ON PROBLEM AT CHIP MILL	PLANS TO REPLACE OLD SEWER LINE, INCREASE NEW LINE	
3/26/2012			4PM	3/21/2012	7AM	3/24/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	65,000	EXCESSIVE RAINFALL - 3.5 INCHES	CLEANED UP	PLANS TO INCREASE LINE AT CHIP MILL	
3/26/2012			4PM	3/21/2012	7AM	3/24/2012	HWY 11/80 EAST & RUSSELL STREET, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	100,000	EXCESSIVE RAINFALL - 3.5 INCHES	NO INFORMATION PROVIDED	PLANS TO INCREASE LINE AT CHIP MILL	
4/2/2012	✓	✓	10:30AM	3/29/2012	11:15AM	3/29/2012	HWY 11/CELOTIX	MANHOLE	SOWASHEE CREEK	600,000	PUMP STATION FAILURE	PUMP WAS RESET, LIME WAS SPREAD OVER THE ENTIRE AREA	PUMP WAS RESET	
6/25/2012		✓	7AM	6/25/2012	8:30AM	6/25/2012	HWY 39, NUMBER 1 LIFT STATION	PUMP STATION	SOWASHEE CREEK	50,000	POWER FAILURE	RESTORED POWER, COLLECTED ALL DEBRIS, SPREAD LIME OVER THE ENTIRE AREA	POWER RESTORED TO PUMP STATION	
8/1/2012	✓	✓	8PM	7/26/2012	8:30AM	7/27/2012	29TH AVENUE	MANHOLE	NONE	35,000	BROKEN LINE	REPAIRED LINE, DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	REPAIR OF LINE	
8/20/2012		✓	3:30PM	8/18/2012	6PM	NOT AVAILABLE	TOMMY WEBB DRIVE	MANHOLE	SOWASHEE CREEK	200,000	1&1/2 INCHES OF RAINFALL	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
12/17/2012	✓		10AM	12/17/2012	8PM	12/17/2012	CHIP PICKERING DRIVE AND STENNIS DRIVE	PIPE	SOWASHEE CREEK	320,000	BROKEN PIPE	STOPPED PUMP TO CEASE FLOW, REPAIRED PIPE AND SPREAD LIME OVER ENTIRE AREA	REPAIRED PIPE LINE	
1/4/2013	✓	✓	3:30PM	12/28/2012	NOT AVAILABLE	12/29/2012	HWY 45 SOUTH, BEHIND MS POWER	MANHOLE	SOWASHEE CREEK	350,000	BLOCKAGE	FLUSHED LINE & CLEANED DEBRIS, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	

Date SSO Event Report Received by MDEQ	SSO Reporting		City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
1/4/2013	✓	✓	8PM	12/29/2012	11PM	12/29/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	18,000	EXCESSIVE RAINFALL	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/4/2013	✓	✓	8PM	12/30/2012	11PM	12/30/2012	SOWASHEE STREET	MANHOLE	DITCH TO SOWASHEE CREEK	1,800	EXCESSIVE RAINFALL - 1.5 INCHES	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	NO INFORMATION PROVIDED	
1/14/2013	✓	✓	7PM	1/12/2013	6AM	1/13/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	13,200	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
1/14/2013	✓	✓	6PM	1/12/2013	NOT AVAILABLE	1/14/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	72,000	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS	NO INFORMATION PROVIDED	ONGOING
1/14/2013	✓	✓	6PM	1/12/2013	6AM	1/13/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	10,800	EXCESSIVE RAINFALL - 2 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
1/28/2013	✓	✓	10AM	1/16/2013	10AM	1/19/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	51,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	10AM	1/16/2013	8AM	1/17/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	66,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	10AM	1/16/2013	8AM	1/21/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	142,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	10AM	1/16/2013	12NOON	1/23/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	151,200	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	✓	✓	1PM	1/23/2013	7PM	1/23/2013	29TH AVENUE, MULTI-COUNTY	MANHOLE	SOWASHEE CREEK	1,500	BLOCKAGE IN SEWER LINE	COLLECTED DEBRIS, SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	HWY 45 NORTH, ENTRANCE TO EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	8,100	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS, SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	2,700	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS, SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	10,800	EXCESSIVE RAINFALL - ABOUT 2 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
2/1/2013	✓	✓	11AM	1/30/2013	8PM	1/30/2013	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	5,400	EXCESSIVE RAINFALL - ABOUT 2 INCHES	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
2/11/2013	✓	✓	5PM	2/6/2013	2PM	2/7/2013	CHIP PICKERING DRIVE	MAIN LINE	SOWASHEE CREEK	300,000	BREAK IN LINE	SPREAD LIME OVER AREA	REPAIRED LINE	
2/14/2013	✓		1PM	2/13/2013	10PM	2/13/2013	65TH AVENUE (MAPLE GAS TERMINAL)	MANHOLE	SOWASHEE CREEK	10,800	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	NO INFORMATION PROVIDED	NO INFORMATION PROVIDED	
2/14/2013	✓		9AM	2/12/2013	11PM	2/12/2013	40TH AVENUE & 26 STREET	MANHOLE	SOWASHEE CREEK	2,520	EXCESSIVE RAINFALL - 2.9 INCHES 2/11/2013 TO 2/12/2013	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		9AM	2/12/2013	11PM	2/12/2013	26 & 41ST STREET	MANHOLE	SOWASHEE CREEK	4,200	EXCESSIVE RAINFALL - 2.9 INCHES 2/11/2013 TO 2/12/2013	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	NOT AVAILABLE	2/13/2013	HWY 45 NORTH (EAST MERIDIAN WWTP ENTRANCE)	MANHOLE	SOWASHEE CREEK	42,000	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	6PM	2/13/2013	HWY 11 & 80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	70,800	EXCESSIVE RAINFALL - 6.74 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	6PM	2/13/2013	HWY 11 & 80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	84,000	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		6PM	2/11/2013	10PM	2/12/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	4,800	EXCESSIVE RAINFALL - 2.9 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		8PM	2/10/2013	10AM	2/11/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	4,200	EXCESSIVE RAINFALL - 3.48 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	IDENTIFY I&I SPOTS IN LINE AND MAKE SPOT REPAIRS, TWO BREAKS AND ONE MANHOLE HAVE BEEN IDENTIFIED, REPAIRS BEGAN 2/14/2013 ON THESE	

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	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
2/14/2013	✓		8PM	2/10/2013	10AM	2/11/2013	HWY 145 & SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	1,680	EXCESSIVE RAINFALL - 3.48 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/14/2013	✓		1PM	2/13/2013	2PM	2/13/2013	OLD 8TH STREET	MANHOLE	SOWASHEE CREEK	300	PUMP FAILURE DUE TO RAGS PREVENTING IMPALERS FROM TURNING	COLLECTED DEBRIS AND SPREAD LIME OVER AREA, PULLED PUMP TO BE REPAIRED	REPAIR OF PUMP	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	6,000	EXCESSIVE RAINFALL - 1.5 INCHES	SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	3,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	PARKWAY BOULEVARD	MANHOLE	SOWASHEE CREEK	600	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	900	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	7PM	3/11/2013	65TH AVENUE	MANHOLE	DITCH TO SOWASHEE CREEK	3,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/19/2013	✓	✓	2PM	3/11/2013	8PM	3/12/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	9,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/21/2013	✓	✓	6PM	2/17/2013	10AM	2/18/2013	100 TO 65TH AVENUE	MANHOLE	SOWASHEE CREEK	10,000	EXCESSIVE RAINFALL - 8 INCHES THE WEEK PRIOR, PIPE RESTRICTION DUE TO JOINT FAILURE ALLOWING DIRT INTO SEWER LINE	REPAIRED AND WASHED LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA	LINE REPAIRED AND WASHED	
3/21/2013	✓	✓	10PM	3/18/2013	11AM	3/19/2013	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	177,000	BREAK IN LINE	SHUT OFF PUMP STATION	REPAIRED LINE	
3/21/2013	✓	✓	9AM	3/18/2013	6PM	3/19/2013	HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	3,800	INFLOW & PIPE RESTRICTION	JETTED LINE TO ALLOW MORE FLOW THROUGH LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/21/2013	✓	✓	X	3/19/2013	1PM	3/19/2013	34TH & 10TH AVENUE	LINE	SOWASHEE CREEK	60,000	BANK COLLAPSED SHIFTING THE LINE, WHICH CAUSED THE RUBBERS IN PIPE JOINTS TO PUSH OUT	REPAIRED LINE	REPAIRED LINE	
3/29/2013	✓	✓	3PM	3/24/2013	4:30PM	3/24/2013	4524 HWY 39 NORTH	MANHOLE	SOWASHEE CREEK	180	GREASE BLOCKAGE	JETTED LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
3/29/2013	✓	✓	11:30AM	3/24/2013	2PM	3/27/2013	HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	8,940	I&I, PIPE RESTRICTION	COLLECTED DEBRIS	NO INFORMATION PROVIDED	
5/1/2013	✓	✓	7AM	5/1/2013	X	X	EAST MERIDIAN WWTP, HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	55,000	EXCESSIVE RAINFALL - 1.5 INCHES	REMOVE DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
5/13/2013	✓	✓	7:30AM	5/10/2013	12PM	5/11/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	60,000	EXCESSIVE RAINFALL - 2 INCHES	REMOVE DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
5/13/2013		✓	7:30AM	5/10/2013	12PM	5/11/2013	EAST MERIDIAN WWTP, HWY 45 NORTH, EAST MERIDIAN WWTP ACCESS ROAD	MANHOLE	SOWASHEE CREEK	75,000	EXCESSIVE RAIN - 2 INCHES	LIME AREA	NO INFORMATION PROVIDED	
6/18/2013			9AM	3/25/2013	10AM	3/25/2013	27TH STREET AND 45TH AVENUE	PUMP STATION	SOWASHEE CREEK	4,500	PUMP FAILURE	STATION BROUGHT BACK ONLINE BY CITY PERSONNEL	REPLACED CONTROLLER PANEL AT STATION	
6/18/2013			9AM	6/17/2013	11AM	6/17/2013	CHIP PICKERING DRIVE	LINE	SOWASHEE CREEK	147,000	BLOWOUT IN PRESSURE LINE	REPAIRED LINE	REPAIR OF LINE	
7/10/2013	✓		9:30AM	5/13/2013	1:30AM	5/17/2013	29TH AVENUE & SOWASHEE CREEK	24" SEWER LINE	SOWASHEE CREEK	120,000	BLOCKAGE IN LINE	REPAIR SEWER LINE, FLUSHED LINE AND CLEANED UP DEBRIS, LIME PUT DOWN OVER AREA	AT THIS TIME, CITY LOOKING TO REPLACE ABOUT 200' OF 24" SEWER LINE	SSO REPORT TO DEQ INCLUDED ATTACHMENT
8/15/2013	✓	✓	12AM	8/13/2013	10:30AM	8/14/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	10,500	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
8/15/2013	✓	✓	12AM	8/13/2013	9AM	8/14/2013	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	13,200	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
10/7/2013	✓		10PM	10/3/2013	9AM	10/4/2013	COTTON GIN ROAD	PUMP STATION	DITCH TO SOWASHEE CREEK	10,000	PUMP FAILURE	COLLECTED DEBRIS AND DISINFECTED AREA	REPAIRED PUMP	

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	City of Meridian Excel Matrix	MDEQ Excel Matrix	Time	Date	Time	Date	Location	Source						
11/13/2013	✓		11PM	11/4/2013	1PM	11/5/2013	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	262,000	BREAK IN SEWER LINE	SPOT REPAIR OF LINE, COLLECTED DEBRIS AND DISINFECTED AREA	LINE REPAIRED	
11/13/2013	✓		X	11/9/2013	2:45PM	11/12/2013	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	968,000	BREAK IN LINE	SPOT REPAIR OF LINE, COLLECTED DEBRIS AND DISINFECTED AREA	LINE REPAIRED	
1/13/2014	✓		9AM	1/9/2014	2:15PM	1/9/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	132,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
1/21/2014	✓		8AM	1/17/2014	12NOON	1/17/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	127,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
1/28/2014	✓		2AM	1/27/2014	2PM	1/27/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	145,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
2/4/2014	✓		8AM	1/30/2014	2PM	1/30/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	130,000	BLOWOUT IN PRESSURE LINE	SPOT REPAIR ON LINE	LINE REPAIRED	
2/5/2014	✓		10PM	2/5/2014	12:30PM	2/5/2014	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	30-35 GALS	EXCESSIVE RAIN - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/5/2014	✓		10PM	2/4/2014	12:30PM	2/5/2014	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	40-50 GPM	EXCESSIVE RAIN - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	NO INFORMATION PROVIDED	
2/13/2014	✓		7AM	2/10/2014	2PM	2/10/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	140,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
2/18/2014	✓		2:30PM	2/15/2014	8PM	2/15/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	125,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
3/4/2014	✓		5AM	2/21/2014	3PM	2/21/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	147,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
3/14/2014	✓		7AM	3/10/2014	1:30PM	3/10/2014	CHIP PICKERING DRIVE	PRESSURE LINE	SOWASHEE CREEK	138,000	BREAK IN LINE	SPOT REPAIR	LINE REPAIRED	
3/28/2014	✓		12AM	3/28/2014	ONGOING	ONGOING	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	30-35 GPM	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/28/2014	✓		12AM	3/28/2014	ONGOING	ONGOING	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	60,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
3/28/2014	✓		12AM	2/28/2014	ONGOING	ONGOING	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	45 GPM	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/8/2014	✓		8PM	4/4/2014	10PM	4/8/2014	HWY 11/80 EAST, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	200 GPM	EXCESSIVE RAINFALL - 6 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/8/2014	✓		5PM	4/13/2014	3PM	4/15/2014	HWY 11/80 EAST, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	408,000	EXCESSIVE RAINFALL - 5 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		6PM	4/13/2014	2PM	4/16/2014	HWY 45 NORTH, EAST MERIDIAN WWTP	MANHOLE	SOWASHEE CREEK	365,000	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		8PM	4/4/2014	7PM	4/9/2014	HWY 45 NORTH, EAST WWTP ENTRANCE	MANHOLE	SOWASHEE CREEK	535,000	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		3PM	4/13/2014	2PM	4/15/2014	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	211,500	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	
4/22/2014	✓		8PM	4/4/2014	6PM	4/7/2014	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	315,000	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND DISINFECTED AREA	NO INFORMATION PROVIDED	



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April 3, 2015

VIA E-MAIL
VIA FEDEX

Tanya Floyd
Associate Regional Counsel
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

Re: **City of Meridian Response to Request for Information**

Dear Ms. Floyd:

On behalf of the City of Meridian, Mississippi (the "City"), this letter and its attachments respond to your March 12, 2015 email conveying the U.S. Environmental Protection Agency's ("EPA") requests for information by April 3, 2015 ("Request for Information"). This letter provides the City's responses to the individual requests in the Request for Information, each of which is identified below. The requested information is described within this letter with the requested documents included as separate attachments to this letter. The City has identified where such information does not exist or is not readily available and provided responsive information to the extent practicable by the April 3, 2015 deadline. Should further responsive information become available prior to the scheduled status conference call on April 9, 2015, the City will provide this information to EPA as soon as possible. We appreciate the opportunity to provide this information and conduct further discussions with EPA on April 9, 2015.

As it relates to information responsive to EPA's Request for Information, the City previously retained Carollo Engineers ("Carollo") to prepare the 2010 Wastewater Collection System Rehabilitation Program Final Report (May 24, 2010) ("2010 Report"). The City provided the 2010 Report to EPA as Appendix E to its July 18, 2014 Response to Notice of Violation and Information Request and Supplemental Information Request. Much of the existing information requested by EPA is contained in this 2010 Report. To facilitate EPA's review, we have identified and extrapolated the relevant responsive information as identified below.

1. ***Sewer system map with identified sewer basins and sub-basins. A "sewer system" being defined as the collection of sewer basins that discharge into a common treatment facility. A "sewer basin" being defined as a collection of smaller sub-basins that serve a large service area independent of other large service areas that discharge into a common treatment facility. "Sub-basins" being defined as smaller area basins within a sewer basin, with its own isolated service area, that discharges into a common main trunk line of the larger sewer basin.***

Prior mapping of the wastewater collection system was conducted in the 2010 Report. Relevant figures of the City's wastewater collection system are included with this letter as **Attachment "A."** A small scale map of the City's full wastewater collection system is shown in Figure 4.4 of **Attachment A.** The wastewater collection system is segregated into thirty (30) sewer basins, as shown on Figure 4.1 of **Attachment A.** The City operated sixty-one (61) lift stations at the time of mapping, and has since added lift stations. The service areas for these lift stations are shown on Figure 5.1 and Figure 5.2 of **Attachment A.** A description of the location of each lift station is included in Table 5.1 of the 2010 Report, included with this letter as **Attachment "B."** Additionally, a diagram of the Lift Station Pumping dependency is shown on Figure 5.3 of **Attachment A.**

2. ***A copy of the entire sewer system as it is represented in GIS, in pdf format, that includes identified basins and sub-basins.***

GIS data was compiled by Carollo during its completion of the 2010 Report. Utilizing the currently available GIS data, we have generated a PDF file of wastewater collection system maps, which are formatted for printing on 24" x 36" paper, and included with this letter electronically as **Attachment "C."** This currently available GIS data does not delineate the sewer basins and lift station service areas identified in response to Request for Information # 1 above.

3. ***A copy of the hydraulic model results, to include hydraulic grade-line charts, variables used to develop the model, a map of the modeled sewer lines, flow data collected, including the locations of flow meter placement, and calibration specifics. This data should be readily available assuming that a hydraulic model was developed as stated in the meeting.***

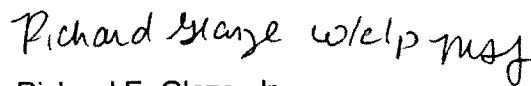
Carollo conducted the hydraulic model discussed during the March 9, 2015 meeting with EPA when preparing the 2010 Report. Because the City retained Carollo to conduct this analysis, Carollo retained the relevant hydraulic model files. The City has been in communication with Carollo to obtain a comprehensive copy of the model results, including the items specified in Request for Information # 3 and has been unable to obtain that information prior to the April 3, 2015 deadline. As soon as Carollo provides that information, the City will supplement this response to include that additional information. In the interim, the City has included with this letter the information which it currently has in its possession, as contained in the 2010 Report. Included with this letter electronically as **Attachment "D"** are: (i) a full scale map of the model simulations provided as Appendix E to the 2010 Report; and (ii) Chapter 4 of the 2010 Report, which details the hydraulic evaluation of the collection system.

4. Identification of Community Groups and a written community outreach/public relations plan (if one exists). Please let me know if City officials would like to discuss community outreach ideas with Reginald Barrino.

The City does not have an existing written community outreach/public relations plan, nor has it previously identified Community Groups. Thus far, the City has planned a series of town hall meetings this summer and is in the process of identifying Community Groups to make a part of its community outreach/public relations plan. Prior to these meetings, the City would like to take advantage of EPA's offer of the assistance of Reginald Barrino to discuss community outreach ideas.

The City is fully committed to cooperating with EPA to resolve its questions and concerns related to the wastewater collection system and will continue to fully commit its resources to working collaboratively with EPA towards resolution.

Sincerely,



Richard E. Glaze, Jr.

REG,JR:dls

Enclosures: **Attachment A** – Figures from 2010 Report.

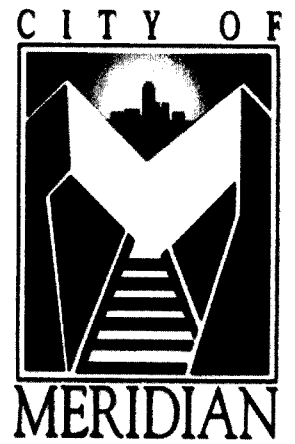
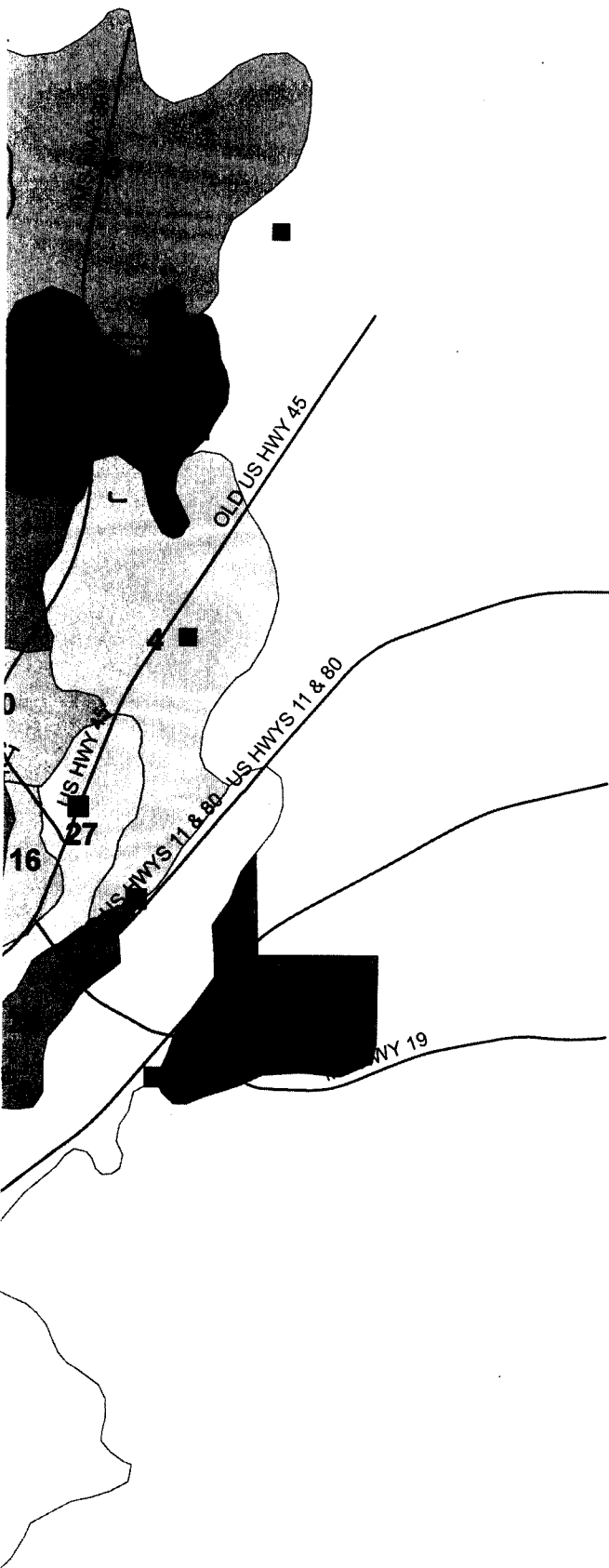
Attachment B – Table 5.1 from 2010 Report.

Attachment C –Electronic Copy of Wastewater Collection System Maps Based on Currently Available GIS Data.

Attachment D – Electronic Copy of 2010 Report, Appendix E and Chapter 4.

April 3, 2015 City of Meridian Response to Request for Information

Attachment A: Figures from 2010 Report



Legend

- Flow Monitors
- Rain Guages

— Streets

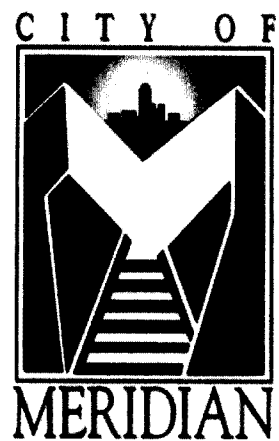
■ Meter Basins









0 4,000
Feet

City of Meridian, MS
Wastewater Master Plan





Legend

-  Map Grid
-  Modeled Lift Station
-  Modeled Pipe
-  Non-Modeled Pipe
-  Streets
-  City Limit

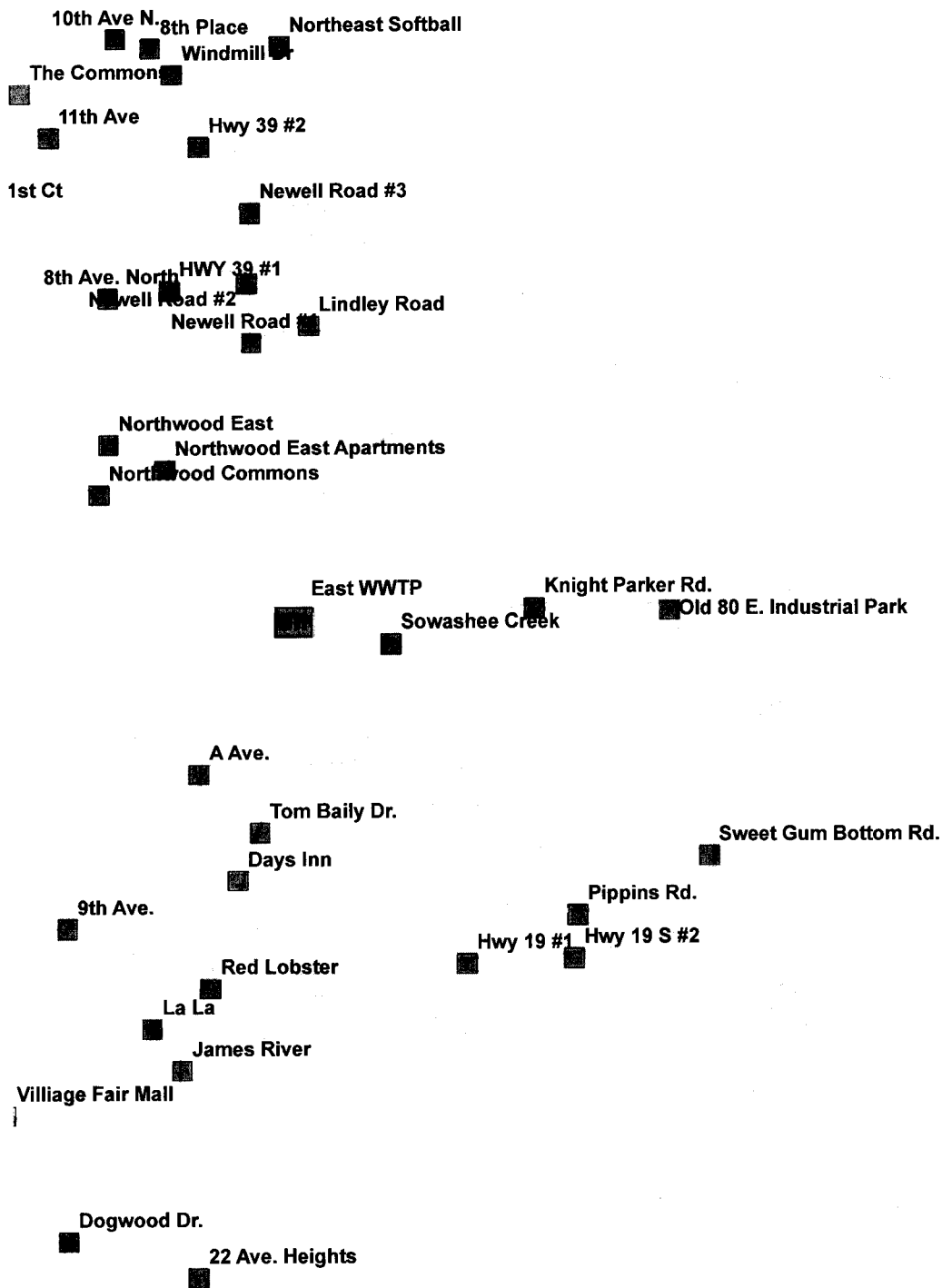


0 5,000
Feet

City of Meridian, MS
Wastewater Master Plan

Layout





CITY OF



MERIDIAN

Legend

- Roads
- Wastewater Treatment Plant
- Pump Station

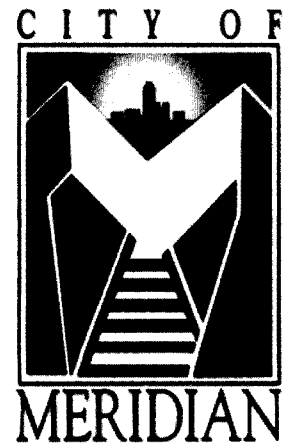
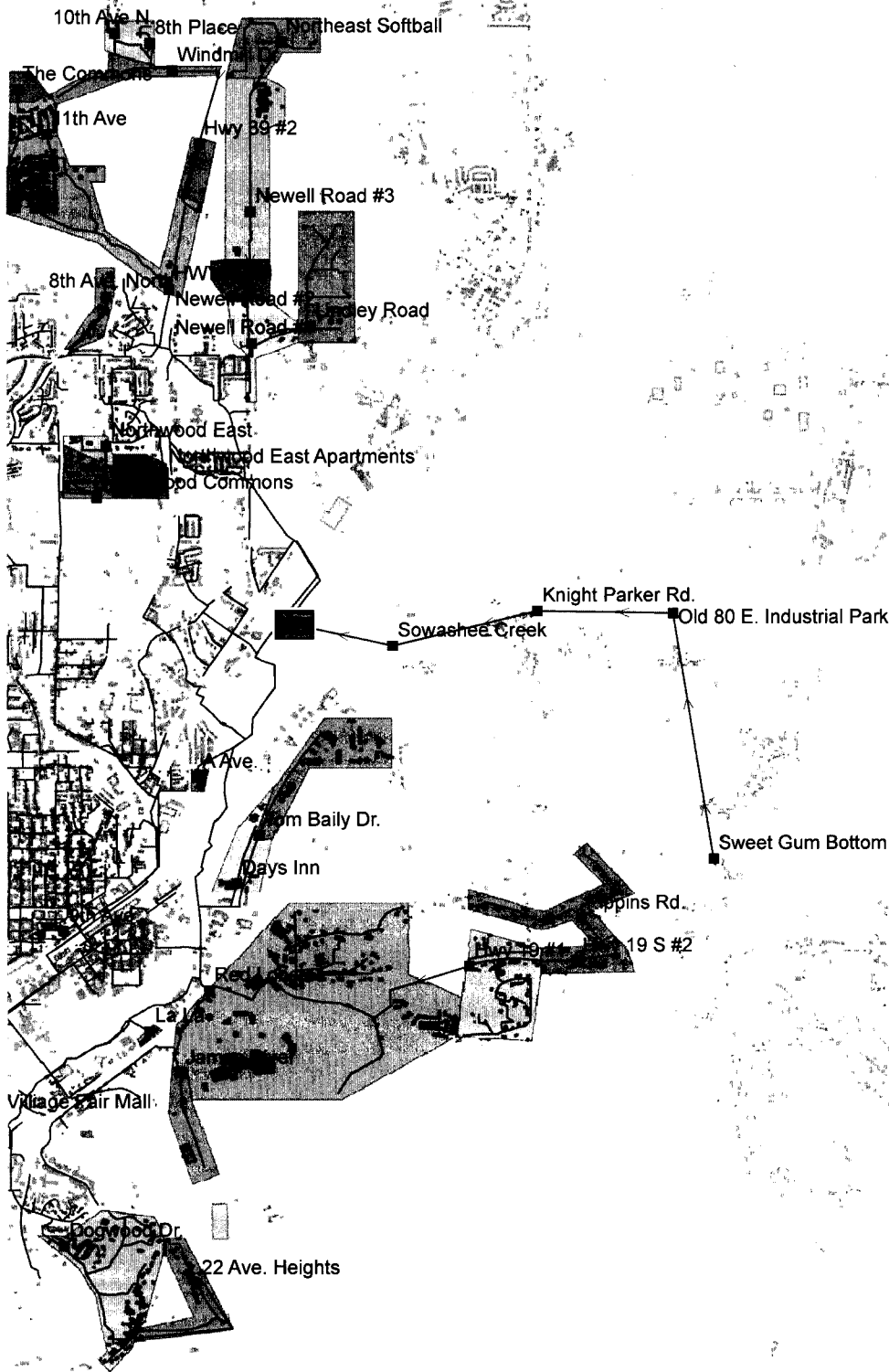


0 4,000
Feet

City of Meridian, MS
Wastewater Master Plan

ICATION





Legend

- Wastewater Treatment Plant
- Pump Station
- Pipe
- Building
- Pump Station Service Area



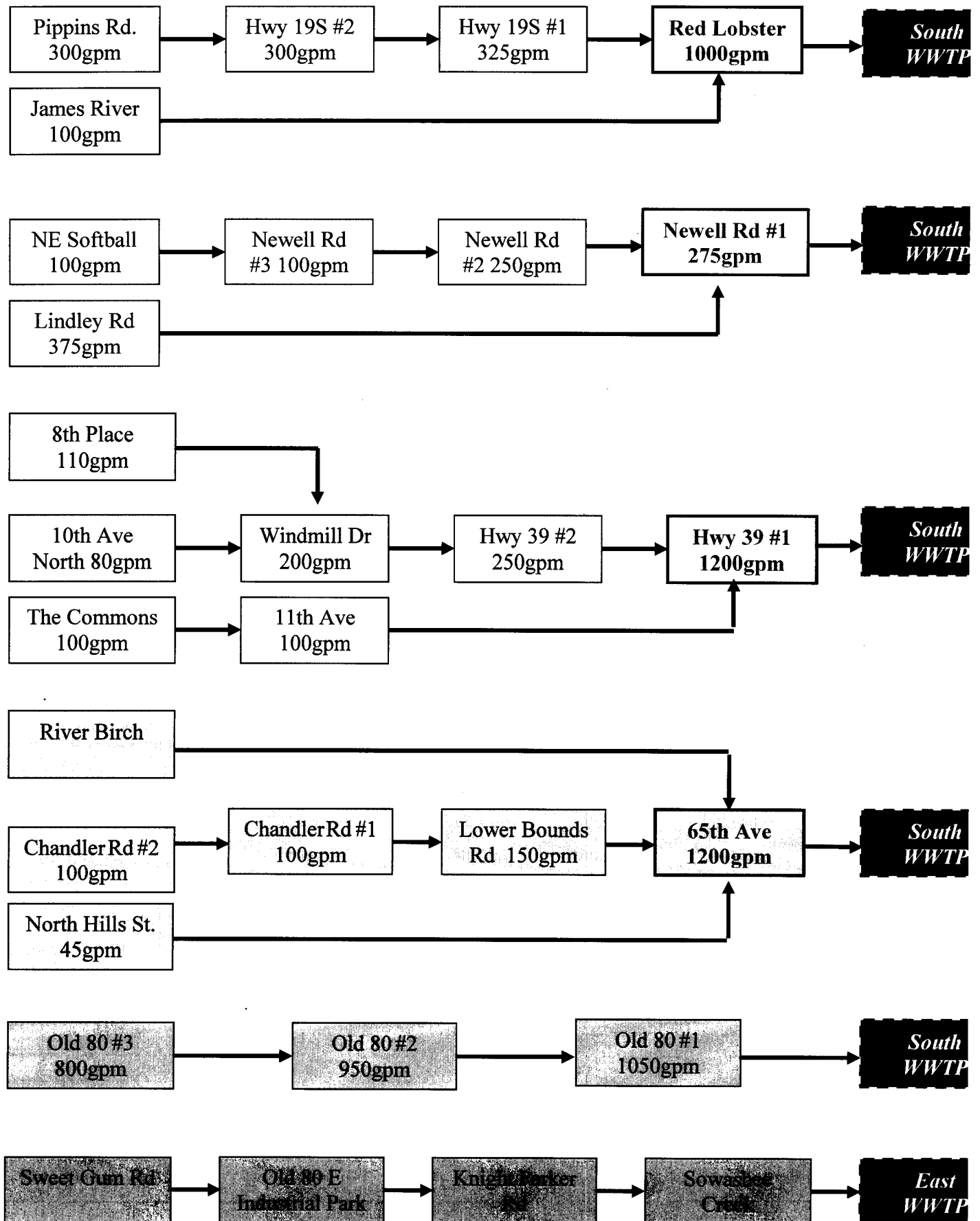
0 4,000
Feet

City of Meridian, MS
Wastewater Master Plan

LOCATION



Figure 5.3 Lift Station Dependency Diagram



April 3, 2015 City of Meridian Response to Request for Information

Attachment B: Table 5.1 from 2010 Report

PUMP STATION EVALUATION

Carollo Engineers evaluated the City's existing sewer pump stations. The City currently maintains and operates 61 sewer pump stations including 3 pump stations serving the Naval Air Station. Activities performed during the pump station evaluation include:

1. Development of a pump station asset database.
2. Updates to the City's GIS database including new force main locations, pump station locations, and pump station service areas.
3. Determination of pump station flow dependency.
4. Hydraulic modeling of flows to each pump station.
5. Assessment of pump station operational capacity.

5.1 PUMP STATION ASSET DATABASE

A pump station asset database was developed as part of the City's Wastewater Master Plan. The City's preliminary list of pump stations was modified according to existing City records and interviews with City staff. This process involved the removal of some pump stations from the City's pump station list and addition of others. The current pump station inventory includes information that was readily available from City records and information gathered from staff testimony. Pump station inspections were not part of the scope of this project, so the pump station database is not comprehensive. The database will benefit from information gathered during future pump station inspections by City staff or future studies. In all, the City is responsible for 61 pump stations including 3 pump stations serving the Naval Air Station. A summary of the updated pump station inventory is shown in Table 5.1 with the full inventory located in Appendix C.

**Table 5.1 Summary of Pump Station Inventory
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
1	8th Ave. North	8th Ave.	M41	LS-BT
2	8th Place	Windmill Sub Division	M15	LS-CG
3	9th Ave.	5th St. & 9th Ave. (Near Front St. and 10th Ave)	M25	LS-BS
4	10th Ave. North	Windmill Sub Division	M49	LS-CH
5	11 Ave	11 Ave. & Windmill Dr.	M04	LS-CJ
6	22 Ave. Heights	Causeyville Rd.	M21	LS-BY

Table 5.1 Summary of Pump Station Inventory Wastewater Collection System Rehabilitation Program City of Meridian, MS				
PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
7	27th Place	27th Street	M02	LS-BW
8	31 Ave. South	31 Ave. South	M19	LS-BZ
9	38th St.	38th St. & 24th Ave.	M48	LS-BJ
10	56th Court	56th Court and Dogwood Hills	M39	LS-BV
11	61st Court	61 Court	M37	LS-BU
12	65th Ave.	65th Ave.	M43	LS-AT
13	70th Place	Old 8th St.Rd.	M44	LS-AH
14	A Ave.	2213 A Ave.	M27	LS-BX
15	Air Port Lift Station	Highway 11 South	M12	LS-AA
16	Chandler Rd. #1	Chandler Rd. & Bounds Rd.	M11	LS-AR
17	Chandler Road #2	North End of Chandler Rd		LS-AS
18	Cotton Gin Rd.	Cotton Gin Rd. & Red Baron Rd. (flows to East WWTP)	M47	n/a
19	Days Inn	Highway 80 East	M24	LS-AQ
20	Dogwood Dr.	Dogwood Dr.	M33	LS-BR
21	Highway 39 #1	Highway 39 North		LS-BP
22	Highway 39 #2	Highway 39 North	M35	LS-BO
23	Hwy 19 S #1	890 Hwy 19 S, (near Mitchum Rd. & Hwy 19 S)		LS-AO
24	Hwy 19 S #2	992 Hwy 19 S, (near Bonita Dr & Hwy 19 S)		LS-BH
25	Hwy 493	6210 Hwy 493, near a new Church, 0.6miles north of 56th Ct & Hwy 493		LS-BI
26	James River	Virginia Dr.	M31	LS-BM
27	Knight Parker Rd.	Knight parker rd & Old US HWYS 11 & 80	M54	LS-CB
28	La La	900 Frontage Rd.	M18	LS-BL
29	Lindley Rd.	Lindley Rd.	M08	LS-BK
30	Lockhart Trailer Park Rd.	Lockhart Trailer Park Rd. (Flows to Cottin Gin Rd LS)	E9	n/a

**Table 5.1 Summary of Pump Station Inventory
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
31	Lovers Ln.	Old 80th St. Rd. & Lovers Ln.	M52	LS-AG
32	Lower Bounds Rd.	Chandler Rd.	M42	LS-AL
33	MCC	1435 College Drive	M01	LS-AK
34	N.A.S. Air Station	N.A.S. GATES (flows to Lockhart Trailer Park Rd. LS)	E8	n/a
35	Newell Rd. #1	Newell Rd.	M40	LS-BG
36	Newell Rd. #2	Newell Rd.	M06	LS-AI
37	Newell Rd. #3	Newell Rd.	M05	LS-BF
38	North East Softball	Newell Rd.	M07	LS-CE
39	North Hills St.	6520 North Hills St.	M34	LS-AE
40	North West School	35 Street	M03	LS-BE
40	North Wood Common	North Wood Common Cir.	M10	LS-BD
42	North Wood East	10 Ave.	M09	LS-BC
43	North Wood East Apt.	Highway 39 North	M38	LS-BB
44	Old 80 #1 Station	6900 Old 80 West	M17	LS-AF
45	Old 80 #2 Station	West of town near Railroad Tracks, near I-20 and Old US Hwy 80	n/a	LS-AW
46	Old 80 #3 Station	West of town by Prison Gates, near I-20 and Old US Hwy 80	n/a	LS-AV
47	Old 80 East Industrial Park	On US Hwys 11 & 80 between Us Hwy 45 and W Malone Ranch Rd, Inside Industrial Park	n/a	LS-CC
48	Pancake Field	19th St.	M20	LS-BA
49	Pippins Rd.	Bonita Dr. & Pippin Rd	E7	LS-CD
50	Red Lobster	Bonita Dr., South Frontage Road	M22	LS-AN
51	River Birch LS	Highway 19 North & 67 Ave. Loop (behind Colonial Storage on River Birch Drive)	M53	LS-CM
52	South Industrial Park	Highway 11 South	M46	LS-AP

Table 5.1 Summary of Pump Station Inventory Wastewater Collection System Rehabilitation Program City of Meridian, MS				
PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
53	Sowashee Creek	on Old US Hwy 11 & 80 near WMOX radio Station	M56	LS-CA
54	St. John	at the end of 27th Ave., between St John St. and Sowashee Creek?	n/a	LS-AZ
55	Sweet Gum Bottom Rd.	n/a	n/a	LS-CN
56	The Commons	North of Windmill Dr. at Old Poplar Springs Dr and 69th CT.	M55	LS-CI
57	Tom Bailey Dr.	Highway 11 & 80	M26	LS-AB
58	Tom Regan Rd.	65th Ave.	M45	LS-AD
59	Tommy Webb Dr.	Tommy Webb Dr.	M13	LS-CK
60	Village Fair Mall	North Frontage Rd.	M28	LS-CL
61	Windmill Dr.	Windmill Dr.	M16	LS-CF

5.2 GIS DATABASE OF PUMP STATION AND FORCE MAIN LOCATIONS

Each pump station location was entered into the City's GIS database except for the three pump stations serving the Naval Air Station. Several force mains were also added to the GIS database and some sewer mains re-routed according to City staff interviews. The location of each pump station is shown in Figure 5.1.

Pump station service area polygons were added to the City's GIS database. The pump station service area polygons were used to estimate Inflow and Infiltration (I/I) rates to each pump station and calculate the linear footage of sewer mains located in each basin. Details of the I/I estimation are covered in Section 5.4. Each of the pump station service areas are shown in Figure 5.2.

5.3 PUMP STATION FLOW DEPENDENCY

Since some pump stations are in series with other pump stations, the dependencies of upstream pump stations were examined for operational issues based on combined pumping flow rates. This required knowledge of the location of each force main. Many force main locations were already known, but City staff testimony provided the location of the remaining force mains. These additional force mains were added to the City's GIS. This allowed the pump station dependencies to be established. The pump stations that have two or more upstream pump stations in series are shown in Figure 5.3 along with their respective rated pumping capacity.

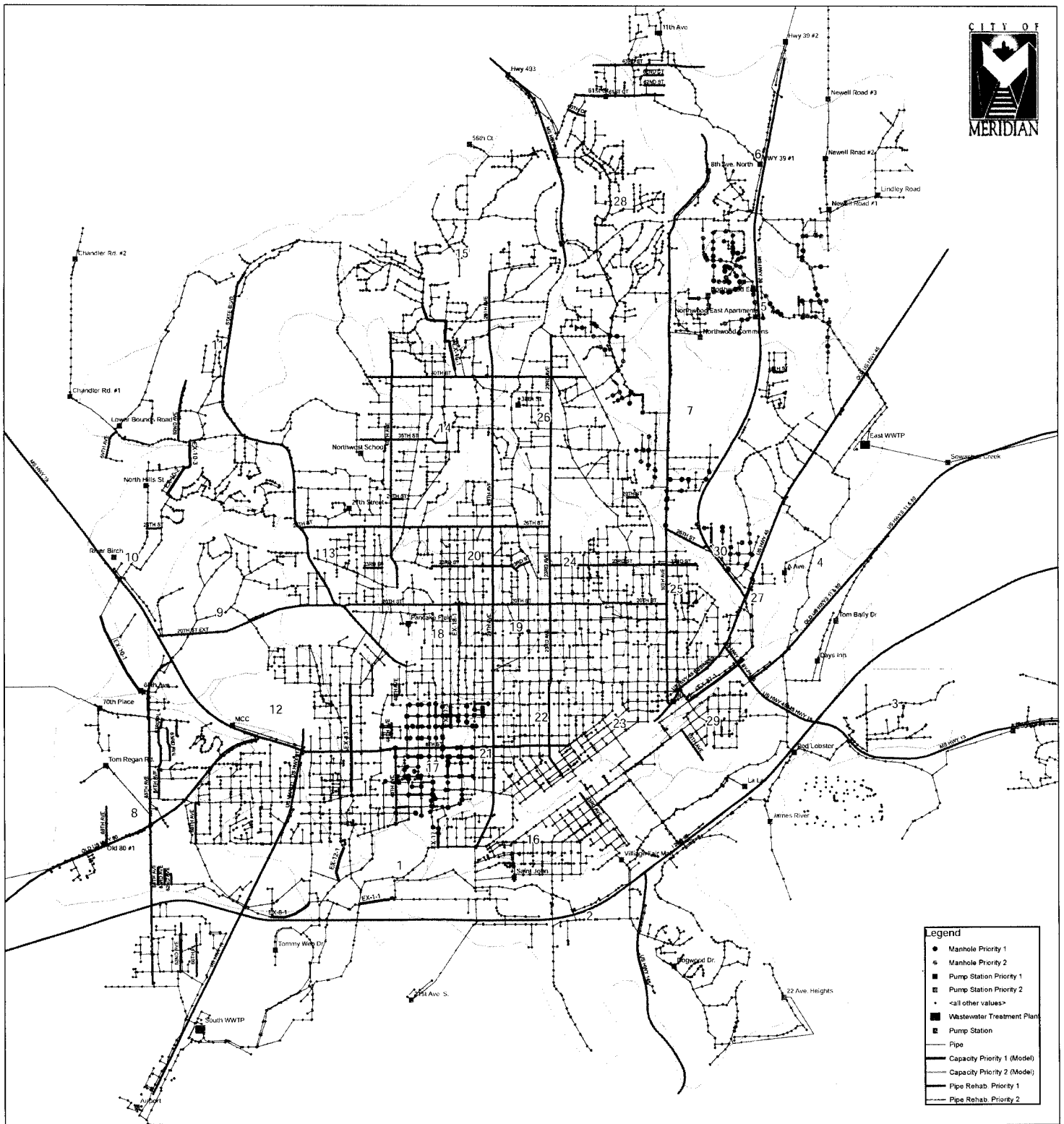
April 3, 2015 City of Meridian Response to Request for Information

**Attachment D: Electronic Copy of 2010 Report, Appendix E and
Chapter 4**

See enclosed disk

Appendix E

Full Scale (24" x 36") Maps of Model Simulations



PROGRAM RECOMMENDATIONS

0 1,000 2,000 Feet



HYDRAULIC EVALUATION OF COLLECTION SYSTEM

The City sewer system has evolved over the years during its increasing development due to the quality of life, recreational access, and educational and medical services. To handle the elevated flows the aging sewer system is in need of selective replacement and rehabilitation.

The purpose of the model is to evaluate the capacity of the existing collection system during peak wet weather flows and to develop improvement recommendations that will provide the City with a reliable and economic wastewater collection system for the future.

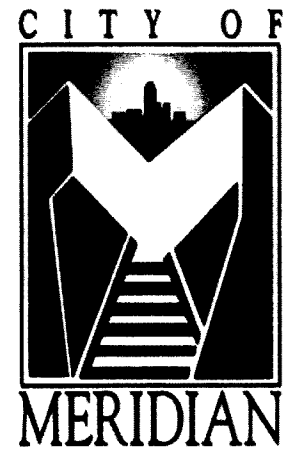
This Chapter describes the City's service area and the physical factors that influence sanitary sewer flows and defines the information and assumptions used to develop the City's collection system hydraulic model. These factors include general background information, flow monitoring activities, hydraulic model development, and pipe capacity analysis.

4.1 SERVICE AREA

The City's sanitary sewer collection system conveys wastewater from customers within the boundaries of the City and residential areas adjacent to the City to the wastewater treatment plant. The wastewater treatment plant accepts sanitary flows from about 303 miles of gravity sewers.

In order to perform comprehensive analysis of the collection system, the service area was divided into thirty sewer basins as shown in Figure 4.1.

The sewer system in the service area is aging and in need of selective rehabilitation and replacement to handle the elevated flows from the inflow and infiltration. Wastewater flows during storm events indicate that large volumes of RDII are entering the collection system. These increased flows limit the amount of additional flow that can enter the system and result in a system operating at its peak capacity. Rainfall averages 57 inches per year.



Legend

- Flow Monitors
- Rain Guages

— Streets

■ Meter Basins



4.1.1 Land Use

Land use information is an integral component in estimating the amount of wastewater generated within any City. The type of land use in an area will affect the volume of the wastewater generated. Adequately estimating the generation of wastewater from various land use types is important in sizing and evaluating collection system facilities.

The City provided information on existing and future land use within the service area. Existing land use classifications were based on information as defined in the City's Municipal Code. Both the existing and future land use data were provided to Carollo in GIS format. Descriptions of the various land use types are presented in the following sections.

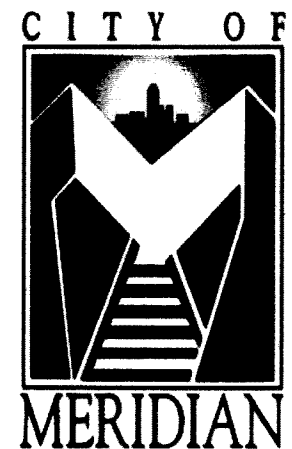
4.1.1.1 Existing Land Use

Figure 4.2 presents the existing land use classifications within the service area. The distribution of existing land use within the service area in terms of acreage and percentage is presented in Table 4.1. Results from the table show that the City is composed primarily of single family residential land use that average 2 to 4 dwelling units per acre. Single family residential accounts for approximately 30 percent (excluding right of way) of the developed land. High Density Residential units are typically located within the commercial districts and average 6 to 15 dwelling units per acre.

4.1.1.2 Future Land Use

Future land use includes the projected expansion of the City through inclusion of several areas currently defined and the full build-out of those lands within the City. Therefore the future land use represents the total build out of the service area and not a specific projection year. The number of developed acres for each land use type is presented below for current and future planning scenarios.

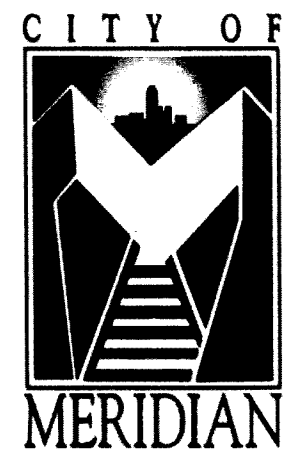
Figure 4.3 illustrate the locations of the various land use classifications used in the model for the future scenario. Table 4.1 show the areas associated with the future land use scenarios. Most of the City is zoned for single family residential with pockets of high density residential areas located throughout the City.



Legend

- Agricultural
- Central Business
- General Business
- Heavy Industrial
- High Density Residential
- Light Industrial
- Medium Density Residential
- Neighborhood Business
- Professional Business
- Public Use
- Regional Business
- Residential-Business
- Single Family Residential
- Vacant





Legend















-  Agricultural
-  Central Business
-  General Business
-  Heavy Industrial
-  High Density Residential
-  Light Industrial
-  Medium Density Residential
-  Neighborhood Business
-  Professional Business
-  Public Use
-  Regional Business
-  Residential-Business
-  Single Family Residential
-  Vacant



Table 4.1 Existing and Future Land Uses Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Land Use Type	Area (ac)		Percent Change
	Existing	Future	
Agricultural	50	3,040	5,980
Single Family Residential	3,931	9,072	131
Medium Density Residential	565	618	9
High Density Residential	30	779	2,497
Central Business	375	189	-50
General Business	569	1,011	78
Neighborhood Business	178	498	180
Professional Business	72	103	43
Regional Business	429	1,811	322
Residential Business	35	52	49
Heavy Industrial	318	1,364	329
Light Industrial	339	1,525	350
Public Use	852	5,654	564
Vacant	5,162	2	-100
Total	12,905	25,718	-
Percent change: (future land area minus existing land use area) times 100 divided by existing land use area			

4.2 NETWORK MODEL DEVELOPMENT

In general, collection system models can assess the current level of performance for the collection system based on population and land use. Also, collection system models can perform “what if” scenarios to project the performance of future developments or population and land use changes. XP-SWMM and InfoWorks software were used to model the City’s collection system.

The collection system model includes the City’s pipelines with diameters of ten inches or greater, all associated manholes, diversion structures, and two pump stations. GIS data provided by the City was entered into the hydraulic model. This data includes pipe length, diameters, invert elevations, and rim elevations.

The City’s service area was divided into sub basins for both existing and future conditions. Each sub basin has an associated amount of residential and commercial flow that enters the collection system through a pipe within or close to the sub basin. The residential and commercial flows were determined from the land use flow rates taken from the City’s Municipal Code and General Plan.

Model calibration is a crucial component of the hydraulic modeling effort. Calibrating the model to known flow metering data is to ensure the most accurate results possible. The calibration process consists of calibrating to both dry and wet weather flow events. Dry weather flow calibration ensures an accurate depiction of base flow generated within the study area, based on population estimates and land use. The wet weather flow calibration consists of calibrating the hydraulic model to a specific storm event to quantify the peak and volume of inflow and infiltration into the collection system. The flows measured from 04/13/2006 through 04/19/2006 were averaged to provide typical dry weather flow conditions to calibrate the model during dry weather flow. For wet weather conditions, the hydraulic model was calibrated to the storm events occurring on March 20, 2006, April 21, 2006 and April 30, 2006.

The calibration process compares the flow metering data with the model output. Comparisons are made for minimum, maximum and average flows as well as the temporal distribution of flow. The dry and wet weather flows injected into the model are calibrated to each flow meter and its tributary pipes in order to match the peak and volume of the flow monitoring data chosen for calibration. Wet weather flow calibration also entails adjusting inflow and infiltration parameters within the model to match the flow monitoring data for each meter during the wet weather rainfall event.

The City’s sewer collection system was modeled to determine if the current collection system capacity is sufficient for existing conditions and future growth. The model calculates sanitary sewer system flows for existing and future conditions based on land use, population and RDII, and compares the flows to the capacity of each modeled pipe in the system. Pipe segments whose calculated capacity is less than their predicted peak flow are identified in this report as “deficient” or “inadequate”.

To keep the amount of input data manageable and to focus on the primary wastewater transmission and interceptor lines, the model considered only pipelines 10 inches or more in diameter. Some 8-inch diameter pipelines critical to the evaluation of certain collection system areas were added to the model as needed. The modeled system is shown on Figure 4.4. The modeled system consists of approximately 65 miles of pipeline.

4.2.1 Collection System Model

The hydraulic model was developed by importing network components directly from the City's GIS coverage's. The extents of the hydraulic model are shown in Figure 4.4. Only the major segments of the piped system were included in the model, which includes approximately 1,025 MHs, 1,440 pipe segments, and 2 pump stations. Lift station capacity, number of pumps, and pump on and off levels were obtained from available design documents.

4.2.1.1 Model Input Data

The basic information required to develop the hydraulic model can be grouped into two categories; sewer physical data and flow input data. The sewer physical data includes sewer size, sewer invert elevation at manholes, manhole top elevation, location of manholes and roughness of sewer pipe. These data were obtained using sewer maintenance records supplemented by as-built drawings and the City sewer map. Where critical data was missing, field surveys were conducted.

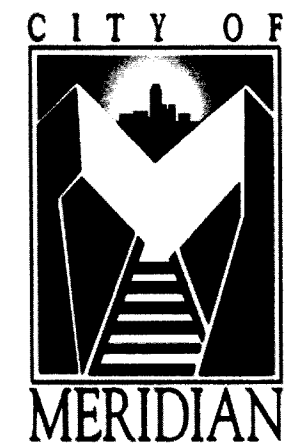
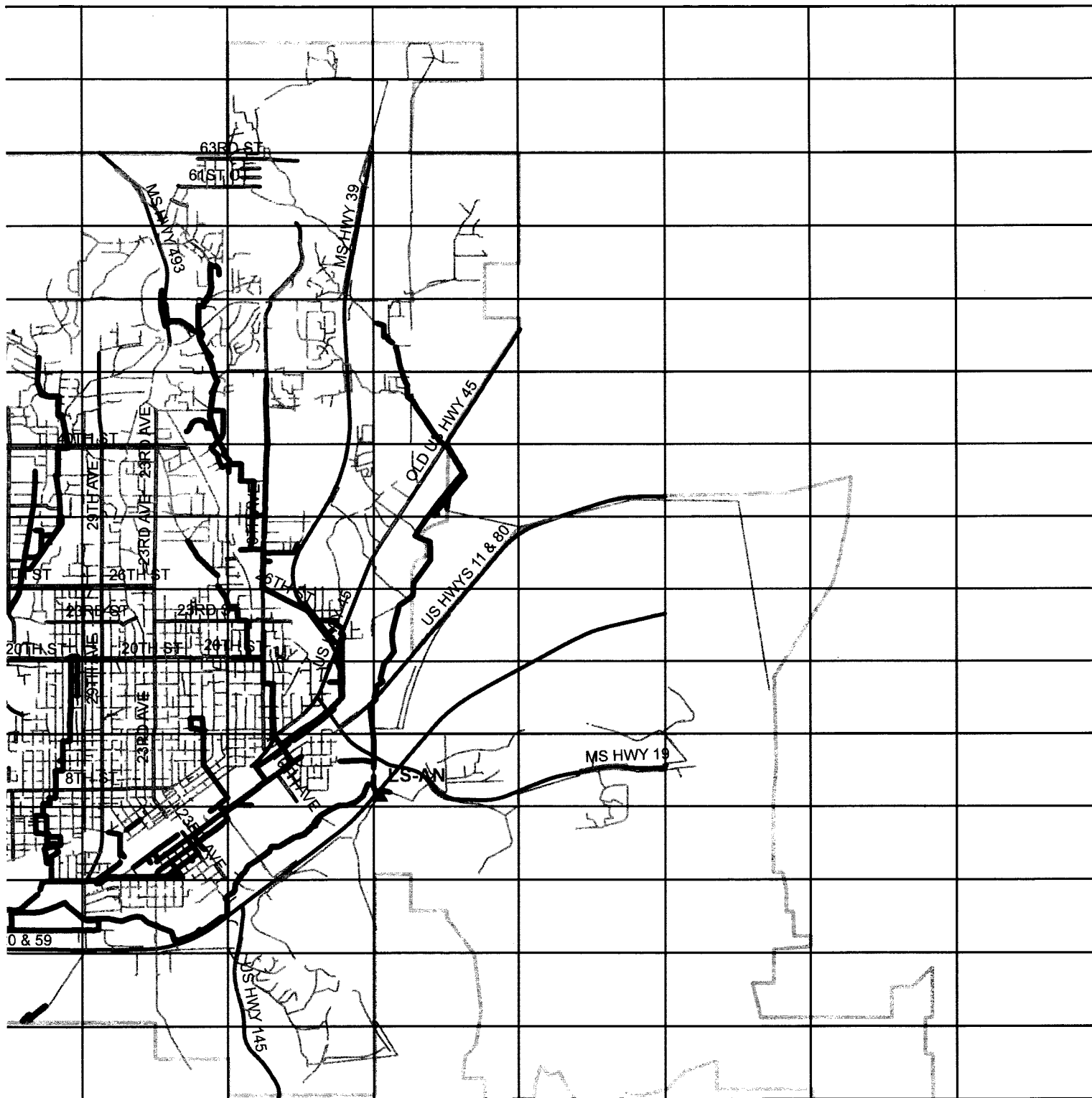
4.2.1.1.1 *Pipe Roughness*

A primary factor affecting a pipe's capacity is the roughness of its interior surface. Empirical testing over many years has established a series of roughness coefficients to characterize the relative smoothness of different types of piping. One such coefficient, called Manning's n-value, was incorporated into pipe capacity formulas for the computer model. The Manning's n-values in the model range from 0.014 to 0.018.







4.2.1.1.2 *Sub Basins and Model Loads*

Wastewater inflows used in the model were based on the City's existing land use and zoning maps, flow monitoring results and model calibration. Sub basins provide a method to estimate and apply loads to the collection system model. Each sub basin represents a defined area in which all businesses and residents apply loads to the system. Based on existing sanitary sewer alignments, sub basins were established throughout the service area. Loads were applied to the model at sub basin loading point.

A total of 188 sub basins and 174 load points were established to provide an estimate of a service area for each sewer line under existing conditions. The existing sub basins were modified to account for potential growth areas to derive the future sub basins.



Legend

-  Map Grid
-  Modeled Lift Station
-  Modeled Pipe
-  Non-Modeled Pipe
-  Streets
-  City Limit



4.2.2 Model Analysis Tools

Various modeling tools are needed to address a wide variety of modeling objectives. These objectives require different levels of detail and the ability to model the system performance over a wide range of time periods. Because of the spatial detail required and the time scales of interest, the conveyance system modeling has two main components:

- Sub basin flow generation model; developed using XP-SWMM software.
- Dynamic hydraulic model of the conveyance system; developed using InfoWorks software.

The XP-SWMM model software was used to develop the runoff model, which generates the Dry Weather Flow (DWF) for each sub basin. The program also computes the RDII components and adds these to the DWF to create sub basin wastewater hydrographs for the InfoWorks hydraulic model. InfoWorks then routes the sub basin wastewater hydrographs through the conveyance system to the wastewater treatment plant. The model also simulates the pump station operations as well as sanitary sewer overflow (SSO) discharges.

4.3 FLOW MONITORING

Sanitary sewer model flows for the City were derived from flow monitoring results. Flow monitoring is a critical part of any comprehensive collection system modeling effort. The flow monitoring data is necessary to correlate projected flow estimates, based on land use (and/or population projections) and flow factors, with actual or “real world” collection system flows, and make necessary flow adjustments in the hydraulic model. The flow monitoring program provided vital information on how the City’s collection system behaves under various loading conditions.

Pipeline Analysis, LLC (PA) conducted the flow monitoring program. PA installed twenty-nine flowmeters and nine rain gauges for the period between March 2006 and May 2006. The twenty-nine flowmeters were located to monitor isolated flow emanating from each of the basins monitored. The locations of the flowmeters are presented in Figure 4.1. The flow monitoring sites were selected to provide flow data in critical sewer sections throughout the service area. Flow monitoring sites need to be readily accessible, and the flow stream should approximate a fairly quiescent sub-critical flow situation.

The flow monitoring results were adequate for model calibration and characterization of the system RDII response under average wet-weather conditions. However, the flow monitors did not capture any extreme storm events. Extreme rainfall events are those that have a 5-year or greater return frequency.

The flow meters defining flow from each basin are presented in Table 4.2. In the table, the Cumulative Flow is the average volume recorded at the meter site and the “Discrete Flow” is the “Cumulative Flow” volume less the flow contribution from up stream meter basins. The table indicates that DWF production per unit area is highest in Basin 29, which generates approximately 2,000 gpd/ac. Basin 30 generates the least DWF per acre of land.

**Table 4.2 Summary of Flow Monitoring Results
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Basin ID	Up Stream Meter Basins	Dry Weather Flow ⁽¹⁾ (mgd) ⁽²⁾		Basin DWF Rate (gpd/ac)
		Cumulative	Discrete	
2	FM 3 & FM 4	1.39	1.00	563
3	None	0.07	0.07	232
4	FM 5	0.32	0.10	151
5	FM 6	0.22	0.04	86
6	None	0.18	0.18	179
7	None	0.02	0.02	73
8	FM 9 & FM 10	0.88	0.53	574
9	None	0.07	0.07	141
10	FM 11	0.28	0.22	382
11	None	0.06	0.06	74
12	None	0.27	0.27	866
13	FM 14	0.96	0.00	0
14	FM 15	1.06	0.64	1,525
15	FM 15	0.42	0.42	426
16	FM 17, FM 29, FM 27, FM 25, FM 23 & FM 21	2.41	0.44	970
17	FM 19 & FM 18	0.51	0.29	1,316
18	None	0.04	0.04	228
19	FM 20	0.18	0.13	622
20	None	0.06	0.05	226
21	FM 22	0.22	0.06	569
22	None	0.16	0.16	538
23	FM 24	0.30	0.09	284
24	None	0.21	0.21	606

Table 4.2 Summary of Flow Monitoring Results Wastewater Collection System Rehabilitation Program City of Meridian, MS				
Basin ID	Up Stream Meter Basins	Dry Weather Flow ⁽¹⁾ (mgd) ⁽²⁾		Basin DWF Rate (gpd/ac)
		Cumulative	Discrete	
25	FM 26	0.33	0.24	758
26	FM 26	0.09	0.09	168
27	FM 27, FM 7 & FM 30	0.26	0.06	302
28	FM 28	0.11	0.11	148
29	FM 29	0.35	0.35	1,977
30	FM 30 & FM 28	0.18	0.07	221
Total		-	6.01	
⁽¹⁾ DWF = Dry Weather Flow based on average of April 13 through April 19, 2006 ⁽²⁾ mgd = million gallons per day FM: Flowmeter				

4.3.1 Wastewater Flow Components

Typically, wastewater consists of three components: base wastewater flow (BWF), groundwater infiltration (GWI), and rainfall dependent inflow and infiltration (RDII). BWF and GWI during dry weather constitute dry weather flow (DWF). GWI occurs when groundwater levels are above the inverts of the collection system pipes and when the collection system has faulty joints or other defects that allow infiltration. Sewer pipes within close proximity to a body of water can be greatly influenced by groundwater effects. RDII occurs during wet weather conditions and causes wastewater flow to increase.

4.3.1.1 Base Flow Projections

BWF is sanitary flow generated from residential, commercial, industrial, and public or institutional sources that discharge into the wastewater collection system. It may vary in magnitude throughout the day, but generally follows a predictable and repeatable diurnal pattern with peak flow usually occurring during the morning hours.

Unit flow rates were determined for all major land use designations; single family residential, multi-family residential, commercial, and industrial as part of the BWF calculations. The City's land use categories identified in the parcel and zoning maps were consolidated for use in developing the flows. The distribution of these land uses is shown in Figure 4.2 and 4.3.

4.3.1.1.1 Residential Unit Flow Rates

Residential unit flow rates were developed using the 2006 flow monitoring data, the zoning map, and the City parcel map. The unit flow rates (gpcd) for existing conditions were initially selected based on our experience with similar cities and later refined through iterative techniques. For each land use category, the total number of houses or tax lots (units) per acre of land was determined. An average household size of 2.75 persons per house was assumed for residential categories. The average household size (persons/unit) multiplied by the number of houses or units per acre in each land use category yielded a total population per acre (i.e. population density). The area flow rate (gpd/acre) for each land use category was then determined by multiplying by the population density by the unit flow rate (gpcd).

The future residential area flow rates were assumed to be 1.2 times the area flow rates calculated for the existing conditions. Table 4.3 lists the existing and future unit rates used to generate BWF.

4.3.1.1.2 Commercial and Industrial Unit Flow Rates

The commercial and industrial unit flow rates were selected based on our experience with similar cities and later refined through iterative techniques. These rates listed in Table 4.3 are close to typical rates of commercial and industrial flows that can vary from 800 to 1,500 gpd/acre (*Wastewater Collection System Modeling and Design*, First Edition, Haestad Methods et al., 2004). However, commercial and industrial rates can vary greatly depending on the type of activity that affects intensity of use, low flow fixtures, local water rates, etc.

Table 4.3 Summary of Flow Monitoring Results Wastewater Collection System Rehabilitation Program City of Meridian, MS							
Land Use Type	Persons per Unit	Units per acre	Persons per acre	Unit Flow Rate (gpcd)		Area Flow Rate (gpd/acre)	
				Existing	Future	Existing	Future
Residential							
Single Family Residential	2.75	2	5.50	73	88	400	484
Medium Density Residential	2.75	5	13.75	69	83	950	1,141
High Density Residential	2.75	10	27.50	65	78	1,800	2,145
Non-Residential							
Central Business						3,000	3,600
General Business						2,000	2,400
Neighborhood Business						900	1,080
Professional Business						2,000	2,400

Table 4.3 Summary of Flow Monitoring Results Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Regional Business		2,200	2,640
Residential Business		900	1,080
Heavy Industrial		720	864
Light Industrial		400	480
Public		22	26

4.3.2 Groundwater Infiltration (GWI)

GWI is groundwater that infiltrates into the sewer system through defects in manholes and pipes. GWI rates vary depending on time of year, the condition of the sewers, soil type, and groundwater levels. However, GWI rates stay fairly consistent throughout the day. GWI was calculated as the difference between metered DWF and BWF at each flow meter basin. The calculated GWI was applied evenly as a flow per acre to the entire area upstream of each flow meter. Table 4.4 summarizes the modeled GWI flow that was used for each basin. The GWI loads were later re-evaluated and adjusted during final calibration of the dry weather flow model.

For future areas, GWI was calculated by identifying the sub basin the future land is located. To calculate the GWI the corresponding GWI rate was multiplied by the future land area. Table 4.4 below shows the calculated BWF and GWI rates.

Table 4.4 Base Wastewater Flow and Groundwater Infiltration Wastewater Collection System Rehabilitation Program City of Meridian, MS								
Site	Flow (mgd)		Site	Flow (mgd)		Site	Flow (mgd)	
	BWF	GWI		BWF	GWI		BWF	GWI
2	0.840	0.160	12	0.183	0.087	22	0.105	0.055
3	0.051	0.019	13	0.008	0.001	23	0.078	0.012
4	0.087	0.013	14	0.472	0.168	24	0.149	0.061
5	0.024	0.016	15	0.221	0.199	25	0.156	0.084
6	0.155	0.025	16	0.290	0.150	26	0.065	0.025
7	0.018	0.002	17	0.195	0.095	27	0.050	0.010
8	0.345	0.185	18	0.036	0.004	28	0.08	0.03
9	0.049	0.021	19	0.099	0.031	29	0.171	0.180

Table 4.4 Base Wastewater Flow and Groundwater Infiltration Wastewater Collection System Rehabilitation Program City of Meridian, MS								
Site	Flow (mgd)		Site	Flow (mgd)		Site	Flow (mgd)	
	BWF	GW		BWF	GW		BWF	GW
10	0.131	0.091	20	0.039	0.011	30	0.055	0.015
11	0.042	0.018	21	0.047	0.013			
DWF = BWF + GW								

4.3.3 Rainfall Dependent Inflow and Infiltration (RDII)

RDII consists of stormwater entering the collection system either as direct inflow of stormwater runoff or rainfall induced infiltration. Inflow occurs when stormwater flows directly into the collection system through connected catch basins, manhole covers, area drains, or downspouts. Inflow usually occurs very rapidly during a storm event and can become more severe if surface flooding occurs and manholes are submerged. Rainfall induced infiltration is caused by stormwater percolating through the ground and entering the sewer pipes, manholes, and service laterals through cracks and defective joints.

Analysis of RDII requires a method to relate sewer flows to rainfall. Methods in use are documented in the Water Environment Research Foundation project report *Sanitary Sewer Overflow Flow Prediction Technologies*, Project, April 1999. The Rainfall-Flow Regression Method and true hydrologic method are two commonly methods often considered.

The Rainfall-Flow Regression method estimates RDII based upon a relationship developed using multiple linear regressions to associate rainfall summed over various antecedent periods to observed RDII flow. Due to the available data quality and quantity, the Rainfall-Flow Regression Method was not considered in this study.

True hydrologic method was used in this analysis. This approach can be used to estimate basin response to any arbitrary rainfall condition. A runoff model was developed to simulate the response of the sanitary collection system to sanitary, groundwater, hydrologic, and rainfall derived flows. Once calibrated, the model can be used with a long-term local rainfall record or design storms to simulate the RDII and total flows that would be expected at every hour of that rainfall record. With this method, there is increased confidence that the response of the system is accurately estimated. This confidence, however, is predicated on the ability of the model to predict peak flows beyond the range of rainfall conditions experienced in the monitoring periods. Confidence is increased with longer monitoring and a greater variation in rainfall events during that monitoring period.

4.4 MODEL CALIBRATION

Model calibration is a crucial component of the hydraulic modeling effort. Model calibration to known flow metering data is necessary to provide more accurate modeling results. The calibration process consists of calibrating to both dry and wet weather flow events. Dry weather flow calibration ensures an accurate depiction of base wastewater flow generated within the study area, based on land use. The wet weather flow calibration consists of calibrating the hydraulic model to a specific storm event to quantify the peak and volume of inflow and infiltration into the collection system. The amount of inflow and infiltration allowed to enter the collection system is essentially the difference between the wet weather flow and dry weather flow components.

4.4.1 Dry Weather Flow Calibration

Calibration under dry weather flow conditions was performed to verify the base flow generated. The calibration was performed at each flow monitoring location using data from the 2006 monitoring program. The dry weather calibration period is based on monitored flows occurring from 04/13/2006 through 04/19/2006. The primary goal of the calibration was to match the volume of flow generated in the model with the volume measured during the monitoring period. The secondary goal was to match the average dry weather flow pattern between the data sets.

GWI and BWF rates were added to each loading manhole (flow insertion point) and run through the XP-SWMM model. The dry weather calibration process required the adjustment of BWF and GWI parameters so the peaks and valleys of the diurnal curve would match dry weather flow monitoring data gathered for this project. A closely calibrated model consists of diurnal curves (model) peaking consistently with diurnal with diurnal curves developed through flow monitoring process.

Adjustments were made to BWF loads within each sub basin so that the peaks and valleys of the diurnal curves matched the observed flows recorded by the respective flow meter. Judgment was used to evaluate and modify the initial loads throughout the service area. Several iterative simulations were executed during the model calibration.

After the residential, commercial and industrial flows were determined, diurnal curves were created for all pipes tributary to a specific flow meter. The diurnal curves depict the time variation of base flow throughout a 24-hour period. Usually, peaks in a diurnal curve will occur in the morning between 8 a.m. and 10 a.m., and again in the evening between 6 p.m. and 8 p.m. Using the flow data measured during the monitoring period, an average diurnal curve was developed for each flowmeter basin.

The dry weather diurnal curves were developed using five days of dry weather that were preceded by dry weather periods of at least a few days. These days fell between 04/13/2006 and 04/19/2006. The dry weather flow pattern was based on metered flows occurring every 15 minutes (pattern time step in the model) over a 24-hour period (duration in model). The dry weather pattern was considered uniform throughout the sewer system upstream of the flow monitoring point.

Consequently, sanitary base loads upstream of the calibration points were adjusted by the dry weather pattern for the dry weather calibration.

The results of the dry weather flow calibration are shown in Table 4.5. Graphical results for two flow monitoring sites are presented in Figures 4.5 and 4.6. Similar analyses were completed for all flowmeter basins and are presented in Appendix 2.

**Table 4.5 Dry Weather Flow Calibration Results
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Site	Average Flow (mgd)		Absolute Error (%)	Site	Average Flow (mgd)		Absolute Error (%)	Site	Average Flow (mgd)		Absolute Error (%)
	Actual	Model			Actual	Model			Actual	Model	
2	1.390	1.405	1.08	12	0.270	0.268	0.74	22	0.160	0.162	1.25
3	0.070	0.070	0.00	13	0.960	1.002	4.38	23	0.300	0.305	1.67
4	0.320	0.317	0.94	14	1.060	1.055	0.47	24	0.210	0.212	0.95
5	0.220	0.218	0.91	15	0.420	0.421	0.24	25	0.330	0.328	0.61
6	0.180	0.182	1.11	16	2.410	2.45	1.66	26	0.090	0.089	1.11
7	0.020	0.021	5.00	17	0.510	0.515	0.98	27	0.260	0.262	0.77
8	0.880	0.853	3.07	18	0.040	0.042	5.00	28	0.11	0.111	0.91
9	0.070	0.072	2.86	19	0.180	0.178	1.11	29	0.350	0.351	0.29
10	0.280	0.276	1.43	20	0.050	0.051	2.00	30	0.180	0.177	1.67
11	0.060	0.062	3.33	21	0.220	0.217	1.36				

Flowmeter 6

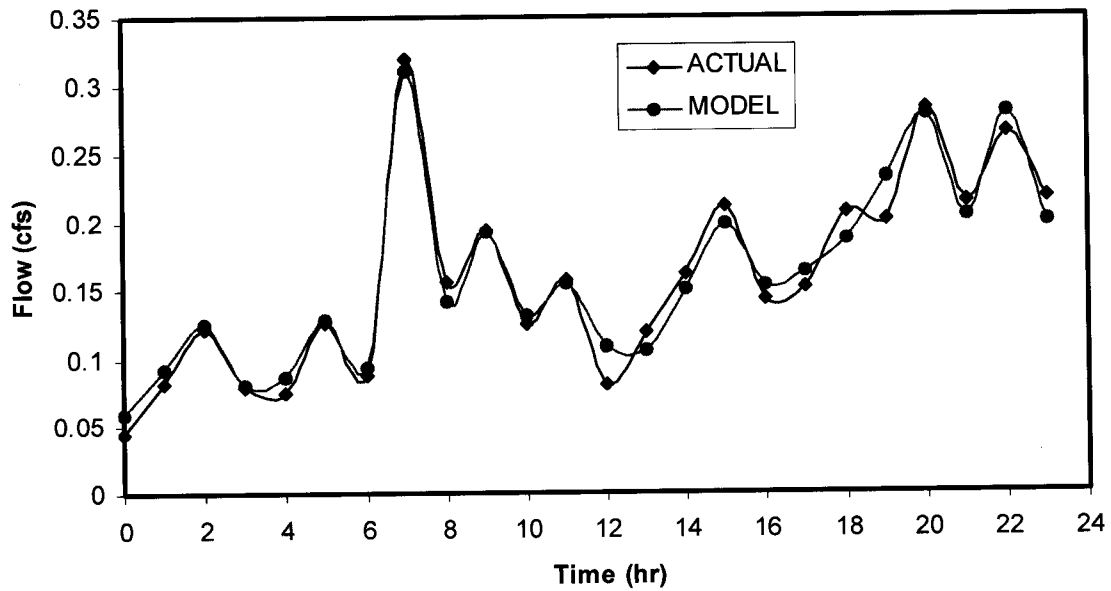


Figure 4.5 Comparison of Modeled and Actual Flow - Flowmeter 6

Flowmeter 11

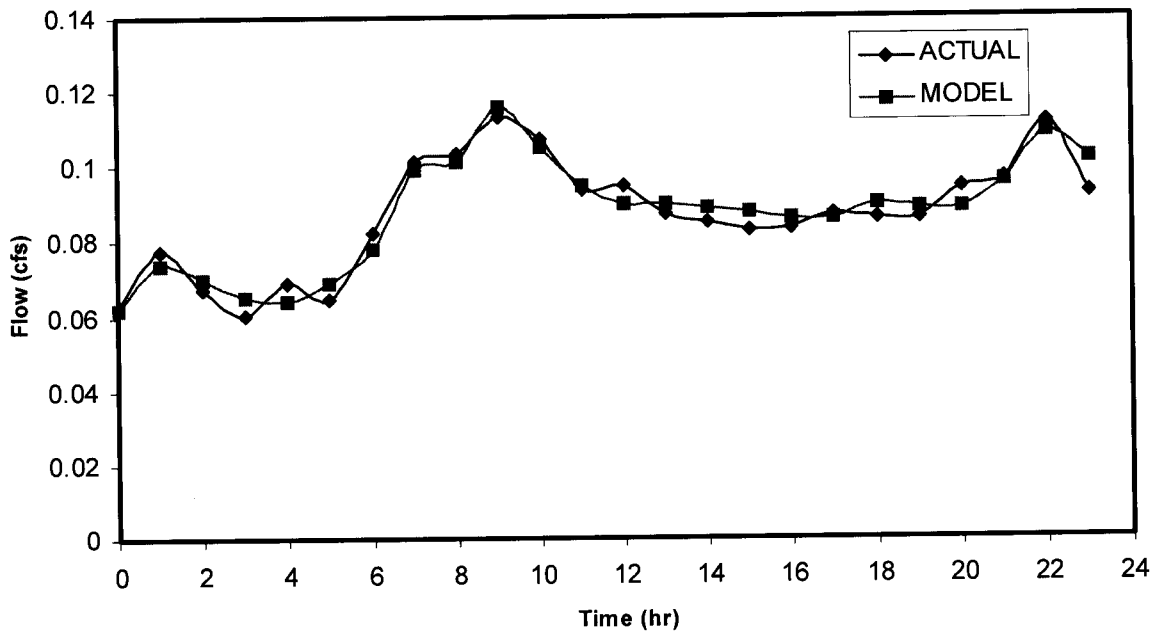


Figure 4.6 Comparison of Modeled and Actual Flow - Flowmeter 11

4.4.2 Wet-Weather Flows

The wet weather calibration involves simulation of observed rainfall data to produce a hydrograph of flow and manhole hydraulic grade line (HGL) for the conduit containing the monitoring equipment. The model output is then graphically compared to observed data.

The wet weather flow calibration begins with the development of runoff model to estimate RDII. The XP-SWMM software was used to develop the runoff model to simulate the response of the sanitary collection system to sanitary, groundwater, and rainfall derived flows. Once constructed and calibrated, the runoff model was used to project flows under wet weather conditions for existing conditions.

4.4.2.1 Runoff Modeling Approach

Simulating RDII using XP-SWMM runoff requires the specification of sub basin characteristics that result in correct RDII. These sub basin characteristics do not have any physical significance, but they allow simulation of RDII using runoff calculation formulations. The parameters specified include sub basin area and percent imperviousness. The sub basin area was calculated as the surface area of the sewer tributary area to the inflow point in the model. The percent imperviousness is used to represent the ratio of RDII volume in feet to rainfall depth in feet. The percent imperviousness is a dimensionless parameter and is equivalent to runoff coefficient.

The percent imperviousness value was determined by analysis of flow monitoring data. After separating the rainfall-induced flow for a number of storms, RDII volumes were calculated and plotted versus rainfall depth. The slope of the correlation line gives an estimate of the percent imperviousness. Typically, a sanitary sewer system in good condition will have percent imperviousness values of less than 0.01. Approximately, fifty percent of the flow monitoring sites have percent imperviousness values greater than 0.01.

The ultimate goal of the wet weather flow calibration was for the modeled data to match the storm peaks from the 2006 flow monitoring data. To avoid significant errors in projection the model was calibrated over approximately one full wet season of flow data. It is highly probable that flows measured in such conditions will reflect the peaks that can occur under wet antecedent conditions. The storm event used for wet weather calibration occurred on March 20, 2006, April 21, 2006 and April 30, 2006. Once the model was loaded with existing BWF, GWI and RDII, the hydraulics were analyzed to verify that the correct peak flows were being predicted at each flow monitor location. Parameters such Manning's roughness coefficient, infiltration parameters and sub basin width were adjusted to calibrate the model.

Figures 4.7 and 4.8 compare the observed and modeled flows for two monitoring sites. The calibration results show a reasonable agreement between observed and modeled flows at all the flow monitoring sites.

Flowmeter 11

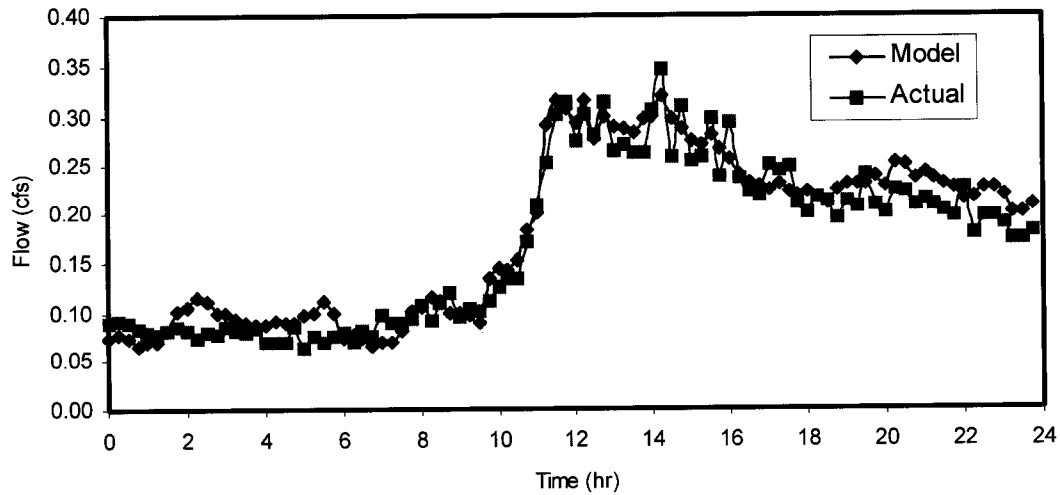


Figure 4.7 Wet Weather Flow Calibration Results (04/30/2006) - Site 11

Flowmeter 20

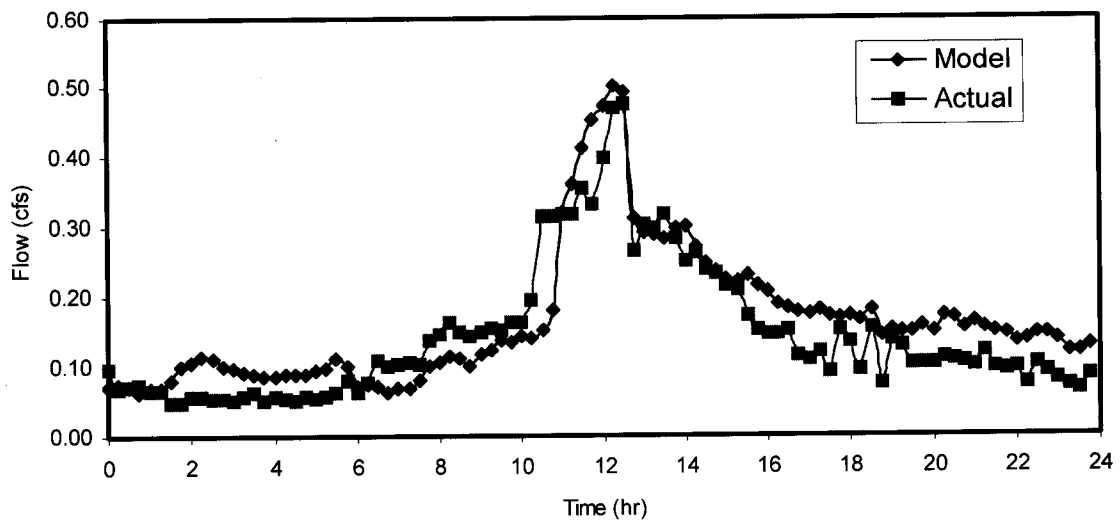


Figure 4.8 Wet Weather Flow Calibration Results (04/30/2006) - Site 20

4.5 CAPACITY ANALYSIS

A capacity analysis of the modeled collection system was performed upon completion of the dry and wet weather flow calibrations. The capacity analysis entailed identifying areas in the collection system where flow restrictions occur or where pipe capacity is insufficient to pass peak wet weather flows. This section presents the results of hydraulic analysis of the existing collection system under existing and build-out flow conditions. Deficiencies in the City's service area were evaluated using a dynamic computer model. The model calculates sanitary sewer system flows for existing and future conditions based on land use, population, and RDII, and compares the flows to the capacity of each modeled pipe in the system. Pipe segments whose calculated capacity is less than their predicted flow are identified in this report as "deficient" or "inadequate." Based on the hydraulic analysis, a preliminary capital improvement program is developed.

4.5.1 Design Storm Selection

A design storm was developed to estimate the peak wet weather flow in the system and to provide information to perform the capacity analysis. Design storms are "synthetic" rainfall events based on historical rainfall data used to analyze the performance of a collection system under peak flows and volumes. The design storm has a specific recurrence interval and rainfall duration.

Development of a design storm is based on rainfall intensity, pattern, and volume. Analysis of these parameters is crucial in providing a realistic design storm for the City, thus a higher design standard for the collection system is an inefficient use of resources. Based on U.S. Department of Agriculture, Soil Conservation Service Technical Publication 40, (TP 40), rainfall intensity-duration and frequency curves were developed for the City of Meridian. These curves were used to estimate the frequency of the measured rainfall data. Appendix D contains detailed description on the development of the design storms for this analysis. The rainfall intensity-duration relationships developed for the Meridian area are presented in Table 4.6.

Table 4.6 Rainfall Depth - Duration - Frequency Relationship Wastewater Collection System Rehabilitation Program City of Meridian, MS							
Return Period	Rainfall Intensity (in/hr)						
	30 Min	1 Hr	2 Hrs	3 Hrs	6 Hrs	12 Hrs	24 Hrs
1	2.90	1.80	1.10	0.80	0.47	0.28	0.18
2	3.30	2.10	1.25	1.10	0.58	0.35	0.20
5	4.20	2.60	1.60	1.17	0.75	0.43	0.26
10	4.40	2.80	1.85	1.33	0.83	0.51	0.30
25	5.20	3.20	2.00	1.50	0.98	0.59	0.33
50	5.60	3.60	2.25	1.67	1.13	0.68	0.37
100	6.40	3.80	2.50	1.83	1.18	0.75	0.43

The rainfall periods used to calibrate the hydraulic model occurred on April 30, 2006, April 4, 2006 and April 30, 2006. During these periods, the greatest continuous 24-hour volume was less than the 5-year storm event determined by statistical analysis. However, additional analysis was performed on historic dry and wet weather flow data. Based on this data, it was determined that the calibration storm was approximately a 5-year storm event.

4.5.2 Collection System Model Analysis

The collection system was modeled and analyzed using the 5-year 24-hour design storm to determine the system capacity deficiencies. The capacity analysis was performed for the existing land use condition and the build-out scenario. Within the model, the design storm produces RDII flows. A combination of RDII and dry weather flows is routed through the collection system hydraulic model. The hydraulic model determines which pipelines in the collection system are unable to convey the peak wet weather flows caused by the design storm.

4.5.2.1 Hydraulic Evaluation Criteria

The hydraulic evaluation criteria present the guides used to evaluate the existing collection system. Using these guides, solutions were formulated for each alternative by solving conveyance and overflow problems in the collection system. These guides consist of design objectives, design criteria and physical constraints. Using these guides, capital improvements were developed and cost estimates completed as presented in this report.

4.5.2.1.1 *Existing and Future System Evaluation Criteria*

The capacity and performance of the existing system and future system scenarios was evaluated based on the following criteria:

- **Pipe surcharge:** Pipe surcharge occurring during the 5-year wet weather event design conditions should be eliminated. Under dry weather conditions, a depth to diameter (d/D) value less than 50 percent is desirable. Under the 5-year wet weather design conditions, a d/D ratio should not exceed 100 percent. Capacity limiting problems were identified at all pipes that exceeded these threshold values. Siphons and adjacent pipes are noted as exception to this rule.
- **Sanitary sewer overflows (SSOs):** Sanitary sewer overflows occurring during the 5-year wet weather design conditions should be eliminated. SSOs are noted as “flooding” or “flooded structures” in the model.
- **Pipe Velocity:** Flow velocities should be maintained between 2 and 10 feet per second (fps). Velocities less than 2 fps could cause solids to settle out of the wastewater and that could lead to clogged pipes and system backups. Additionally, an accumulation of solids may trap organic solids, increase detention time and promote sulfide generation. Velocities greater than 10 fps require special protection against erosion and impact. Flow velocities were evaluated under dry and wet weather conditions.

Sewer reaches exhibiting less than minimum velocity in the model was not used as a sole criterion to “trigger” pipe reaches with hydraulic problems for two reasons. First, sewers exhibiting less than minimum velocity but are not surcharged have sufficient hydraulic capacity to pass the design storm flows. Second, correcting the minimum velocity problem requires constructing a new larger pipe and/or increasing the pipe slope. Replacement of a sewer pipe that otherwise has sufficient hydraulic capacity simply to resolve a minimum velocity and potential solids deposition problem is very costly. Solids deposition can be controlled by preventive maintenance at a much lower cost than reconstructing portions of the collection system.

The options of replacement and upsizing of existing sewers was considered in all situations and implemented where deemed appropriate.

4.5.2.2 Model Scenarios

The collection system was evaluated to identify inadequacies and problem areas. The system capacity was evaluated to determine what pipe or pump was potentially limiting collection system efficiency. Evaluation of the efficiency of the collection system was based on capacity of the pipes under dry weather and wet weather flow conditions. Capacity was illustrated using a d/D ratio. Velocity related problems were also identified.

A total of four model scenarios were developed to analyze the City’s sewer collection system. These model scenarios are summarized below in Table 4.7.

Table 4.7 Model Scenarios Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Scenario	Description
EX-DWF	Existing conditions dry weather flow
EX-WWF 5-YR-24 HR-SCS II	Existing condition wet weather flow 5-year, 24-hour SCS Type II Storm Inflow and Infiltration
FUT-DWF	Future conditions dry weather flow
FUT-WWF 5-YR-24 HR-SCS II	Future condition wet weather flow 5-year, 24-hour SCS Type II Storm Inflow and Infiltration

4.5.2.3 EX-DWF Results

The existing system was evaluated under dry weather flow conditions to identify inadequacies and problem areas. The model was examined during the daily peak hour, which occurred daily at approximately 9:00 a.m.

Model simulations of the existing conditions indicated that SSOs did not occur during dry weather flows. All pipes were running well below maximum capacity. Under dry weather flow, a general rule-of-thumb says the d/D ratios should be less than 0.5.

Low flow velocities were abundant under dry weather flow conditions. Velocities greater than 2 fps occurred in approximately 59,602 feet or 18 percent of the modeled pipes. Locations of pipes with velocities less than 2 fps are shown on Figure 4.9. Results of the monitoring program indicated low flow velocities were a constant problem in much of the system. High flow velocities exceeding 10 fps did not cause problems under dry weather flow conditions.

4.5.2.4 EX-WWF 5-YR-24 HR-SCS II Results

The model was run under wet weather design flows to assess capacity, SSOs and velocity related problems. Design flow conditions from a 5-year, 24-hour SCS Type II design storm were applied to the dry weather flows. The model was examined during the design flow peak hour, which occurred between model hour 12:00 and 13:00. At this time, the peak flow from the design storm produced the maximum hydraulic stress to the system.

The model results indicate that no SSOs occurred under the 5-year, 24-hour SCS Type II design storm conditions. Pipe with d/D values that exceeded 1.0 are listed in Table 4.8 and the relative locations of these pipes are displayed in Figure 4.10.

System velocities were evaluated under wet weather flow conditions. Flow velocities less than 2 fps or greater than 10 fps were found to be a problem under wet weather design flow conditions.

4.5.2.5 FUT-DWF Results

The existing system was evaluated under future dry weather flow conditions to identify inadequacies and problem areas. The model was examined during the daily peak hour, which occurred daily at approximately 9:00 a.m.

Model simulations of the existing conditions indicated that SSOs did not occur during dry weather flows. All pipes were running well below maximum capacity. Under dry weather flow, a general rule-of-thumb says the d/D ratios should be less than 0.5.

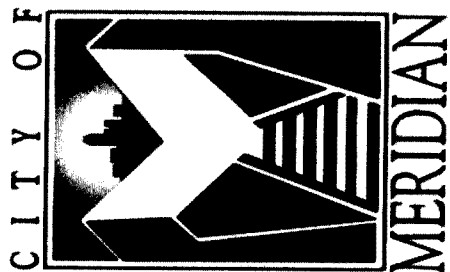
System velocities were evaluated under wet weather flow conditions. Flow velocities less than 2 fps or greater than 10 fps were found to be a problem under wet weather design flow conditions.

4.5.2.6 FUT-WWF 5-YR-24 HR-SCS II Results

The model was run under future wet weather design flows to assess capacity, SSOs and velocity related problems. Design flow conditions from a 5-year, 24-hour SCS Type II design storm were applied to the dry weather flows.

The model results indicate that no SSOs occurred under the 5-year, 24-hour SCS Type II design storm conditions. Pipe with d/D values that exceeded 1.0 are listed in Table 4.8 the relative locations of these pipes are displayed in Figure 4.10.

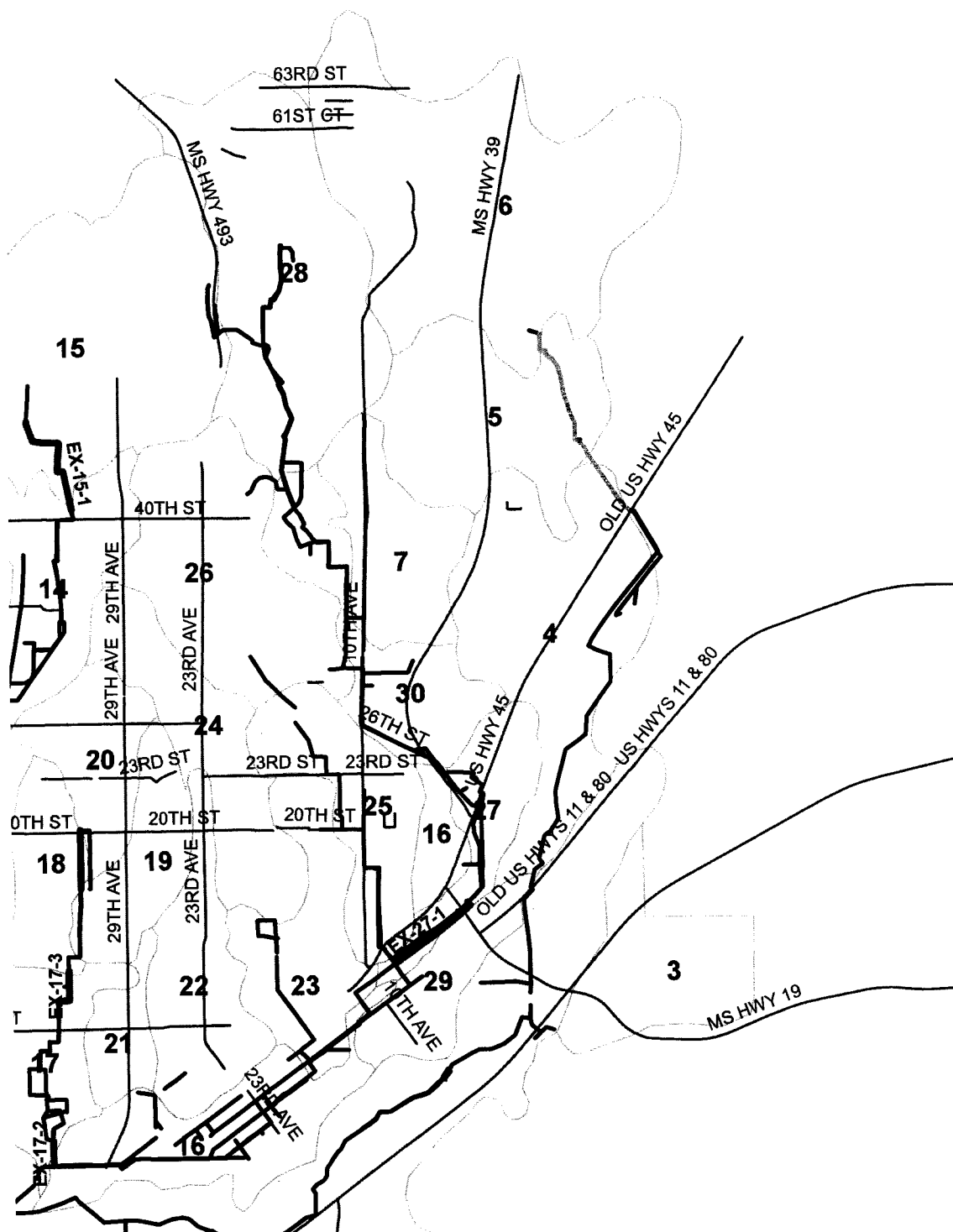
System velocities were evaluated under wet weather flow conditions. Flow velocities less than 2 fps or greater than 10 fps were found to be a problem under wet weather design flow conditions.



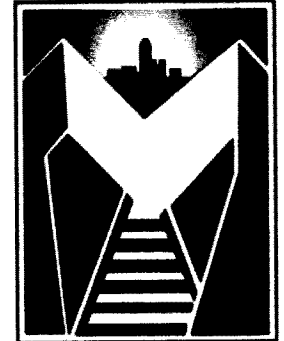
Legend

- Model Pipe
- Vel. Greater Than 2 fps
- Meter Basins





CITY OF



MERIDIAN

Legend

- EX-8-1
- EX-27-1
- EX-18-1
- EX-17-3
- EX-17-2
- EX-17-1
- EX-15-1
- EX-13-1
- EX-12-1
- EX-10-3
- EX-10-2
- EX-10-1
- EX-1-1
- FUT-5-1
- Meter Basins



Table 4.8 Hydraulically Deficient Pipe Segments Wastewater Collection System Rehabilitation Program City of Meridian, MS							
Problem ID	Basin	Manhole		General Location	Diameter (in)	Length (ft)	d/D
		Upstream	Downstream				
EX-17-1	17	G27-179	G27-177	Along 34th Ave. between 12th St. and 11th St.	12	345.9	1.24
EX-10-1	10	E28-009	LS-AT	About 1,500 ft east of MS Hwy 19 and N. HILL St.	16	3119.0	1.47
EX-8-1	8	F25-036	F25-030	About 600 ft north of I29 and 49th St., between 5	24	1431.4	1.68
EX-10-2	10	F30-175	F30-158	East of Oak Dr. between Bounds Rd. and Spruce St.	10	1199.8	1.43
EX-10-3	10	F31-070	F30-185	300 ft east of Bounds Rd. and 62nd Ave. 17th St. a	10	999.6	1.35
EX-20-1	20	G29-032	G28-053	Along 33rd Ave., between 17th St. and 21st St.	10	1430.5	1.29
EX-12-1	12	G25-017	G25-015	East of 49th St., between 1st St. and Front Rd.	18	1164.5	1.21
EX-1-1	1	G25-043	G25-029	North of I20 between 49th Ave. and 31st Ave.	24	1005.6	1.16
EX-17-2	17	G26-268	G25-078	Along 36th Ave., between 2nd St. and Interchange	27	593.5	1.19
EX-27-1	27	I28-069	I27-080	North of 8th Ave., between B St. and US Hwy 45	15	2390.1	1.26
EX-13-1	13	G28-152	G26-128	Along 45th Ave., between 14th St. and 5th St.	24	3556.4	1.33
EX-17-3	17	G27-183	G27-163	Along 34th St. between 12th St. and 10th St.	12	1004.1	1.41
EX-15-1	15	G32-078	G31-131	Along 34th Ave., 35th Ave. and 36th Ave.	10	2927.1	1.27
FUT-5-1	5	J33-004	J31-050	Between N. Hills St. and Old US Hwy 45	10	5027.0	1.78

4.5.3 Existing System Recommendations

Recommendations are made for improvements to the existing system in order to eliminate problems identified. These recommendations include increase pumping capacity, increase conveyance capacity and implementation of a sewer-flushing program.

4.5.3.1 Pumping Capacity

The model results and a separate pump stations analysis shows the pump capacities of pump stations identified as LS-AN(Red Lobster) and LS-AT(65th Ave) should be increased to accommodate the existing design storm flows. Detailed analysis and recommendations for these pump stations are presented in section 3.

4.5.3.2 Conveyance Capacity

Increased conveyance is required in nine basins to eliminate system surcharge. When additional capacity is required, existing sewers can be replaced or paralleled. Most of the recommendations presented in this master plan are based on replacing existing undersized pipe with pipe sized to convey the projected peak flows. This is the preferred alternative for most undersized pipe

conditions. In some situations, other alternatives may be available, including basin (gravity and pumping) transfers, and the use of parallel pipes. The latter approach was not used in this master plan, but should be considered during pre-design if the existing pipe is determined to be in good condition.

For the purposes of this master plan, it was assumed that a deficient existing sewer would be replaced with a larger pipeline at the same slope as the existing pipeline. The criteria used to determine whether an existing pipeline should be replaced were based on the pipeline's capacity to convey peak wet weather flow during the 5-year, 24-hour design storm event.

Based on simulation results, a number of pipelines require improvements for existing and future conditions during the 5-year, 24-hour design storm. Several of the pipelines that require improvements for existing conditions will also require improvements during future conditions, albeit with a larger diameter. It is recommended that the larger diameter be constructed so that these pipelines will have sufficient capacity not only for existing but also for future conditions. A second phase of construction at a later date to account for deficiencies during future conditions would not be cost effective.

Table 4.9 presents a summary of the improvements required during existing and future conditions. The proposed pipe diameter represents the ultimate diameter in cases where further upsizing for build-out conditions was required.

4.5.3.2.1 Basin 17

Under existing conditions, majority of the sewer system modeled for the Basin 17 is hydraulically adequate. Three pipe segments; EX-17-1, EX-17-2 and EX-17-3 show surcharging conditions. The d/D values for these hydraulically deficient pipe segments ranged between 1.19 and 1.41.

Under future conditions, the analysis indicates the surcharging identified under existing conditions will increase but no risk of overflows. It is recommended that the three pipe segments be upsized as shown in Table 4.9.

4.5.3.2.2 Basin 10

Under existing conditions, three pipe segments; EX-10-1, EX-10-2 and EX-10-3 show surcharging conditions. The d/D for these hydraulically deficient pipe segments ranged between 1.35 and 1.47.

Under future conditions, the analysis indicates the surcharging identified under existing conditions will increase but no risk of overflows.

It is recommended that the three pipe segments be upsized as shown in Table 4.9.

4.5.3.2.3 Basin 8

Pipe segment EX-8-1, located between east of MS Hwy 19 and N. Hills St. is slightly surcharged under existing conditions. Simulation results indicate the surcharging will worsen under future flow conditions if no action is taken.

**Table 4.9 Recommendations for Hydraulically Deficient Pipes
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Problem ID	Basin	Manhole		General Location	Diameter (in)		Length (ft)
		Upstream	Downstream		Existing	Proposed	
EX-17-1	17	G27-179	G27-177	Along 34th Ave. between 12th St. and 11th St.	12	18	345.9
EX-10-1	10	E28-009	LS-AT	About 1,500 ft east of MS Hwy 19 and N. HILL St.	16	21	3119.0
EX-8-1	8	F25-036	F25-030	About 600 ft north of I29 and 49th St., between 5	24	30	1431.4
EX-10-2	10	F30-175	F30-158	East of Oak Dr. between Bounds Rd. and Spruce St.	10	18	1199.8
EX-10-3	10	F31-070	F30-185	300 ft east of Bounds Rd. and 62nd Ave. 17th St. a	10	18	999.6
EX-20-1	20	G29-032	G28-053	Along 33rd Ave., between 17th St. and 21st St.	10	18	1430.5
EX-12-1	12	G25-017	G25-015	East of 49th St., between 1st St. and Front Rd.	18	24	1164.5
EX-1-1	1	G25-043	G25-029	North of I20 between 49th Ave. and 31st Ave.	24	30	1005.6
EX-17-2	17	G26-268	G25-078	Along 36th Ave., between 2nd St. and Interchange	27	36	593.5
EX-27-1	27	I28-069	I27-080	North of 8th Ave., between B St. and US Hwy 45	15	24	2390.1
EX-13-1	13	G28-152	G26-128	Along 45th Ave., between 14th St. and 5th St.	24	36	3556.4
EX-17-3	17	G27-183	G27-163	Along 34th St. between 12th St. and 10th St.	12	21	1004.1
EX-15-1	15	G32-078	G31-131	Along 34th Ave., 35th Ave. and 36th Ave.	10	18	2927.1
FUT-5-1	5	J33-004	J31-050	Between N. Hills St. and Old US Hwy 45	10	18	5027.0

This pipe segment should be upsized to 30 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.4 Basin 20

Pipe segment EX-20-1, located along 33rd Ave. between 17th St. and 21st St. is slightly surcharged under existing conditions. Simulation results indicate the surcharging will worsen under future flow conditions if no action is taken. This pipe segment should be upsized to 18 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.5 Basin 12

Pipe segment EX-12-1 is hydraulically deficient for both existing and future conditions flows. This pipe segment should be upsized to 24 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.6 Basin 1

Pipe segment EX-1-1 shown on Figure 4.17 is hydraulically deficient for both existing and future conditions flows. This pipe segment should be upsized to 30 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.7 Basin 27

Under existing conditions, majority of the sewer system modeled for the Basin 27 is hydraulically adequate. One pipe segment; EX-27-1 shows surcharging conditions under existing and future flow conditions. This hydraulically deficient pipe should be upsized to 24 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.8 Basin 13

Pipe segment EX-13-1, located along 45th Ave. between 14th St. and 5th St. is surcharged under existing conditions. Simulation results indicate the surcharging will worsen under future flow conditions if no action is taken. This pipe segment should be upsized to 36 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.9 Basin 15

Under existing conditions, majority of the sewer system modeled for the Basin 15 is hydraulically adequate. One pipe segment; EX-15-1 shows surcharging conditions under existing and future flow conditions. This hydraulically deficient pipe should be upsized to 18 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.10 Basin 5

Under existing conditions, all of the sewer system modeled for the Basin 5 is hydraulically adequate. However, under future flow conditions, one pipe segment; FUT-5-1 shows surcharging

conditions. This hydraulically deficient pipe should be upsized to 18 inches to alleviate the future conditions surcharging.

4.5.3.3 Sewer Flushing Program

Low flow velocities, less than 2 fps, were prevalent throughout the modeled system. Low flow velocities cause debris to deposit in the sewers. Sludge, sand and other debris that have settled can effectively be removed through a sewer-flushing program. The flushing program requires high velocity of problem pipes up to 30 inches. All pipes in the existing system identified as having flow velocities less than 2 fps are shown on Figure 4.9. It is suggested that this figure be used as a guide for staff to target these problem areas.

4.5.3.4 RDII Reduction Plan

The capacity problems identified under the wet weather flow conditions stem primarily from excess RDII. RDII reduces the ability of sanitary sewer systems and treatment facilities to transport and treat domestic and industrial wastewater. There are various costs associated with RDII including sanitary sewer system overflow, wastewater treatment and transportation facilities, and funding opportunities. Additionally, sewer system backups into basements or households can result in litigation and potential liabilities for the responsible city or agency.

Capacity limitations caused by RDII can be managed either by reducing the RDII, conveying the excess flow through larger sewers and storage basins, or a combination of these two basic approaches. Eliminating inflow sources is normally the cheapest and quickest control measure. Infiltration control can be costly and is generally accomplished by repairing or replacing sewer mains and/or laterals. Expansion of sewage conveyance and storage capacity can also be expensive and is normally accomplished by eliminating bottlenecks with relief sewers or larger pump stations, or by constructing off-line storage for excess flow.

A RDII reduction plan consisting of a series of simulation runs was developed to determine tradeoffs between RDII reductions as compared to construction of increased sewer capacity. The analysis uses the calibrated hydraulic model to characterize the current RDII response at basin-scale. Conceptual reductions in RDII were then analyzed to predict the effectiveness of the reduction efforts. It was not the goal of this analysis to determine if it is cost-effective to pursue RDII reduction.

In conjunction with wet weather hydrographs, flow projections were used to produce various scenarios to evaluate three RDII reduction targets. The RDII reduction target levels ranged from 10 to 20 percent. The results show that if RDII reduction is found to be cost-effective, RDII reduction of between 15 and 20 percent will reduce observed surcharging by about sixty percent. The detailed results of all the five simulation runs are presented in Appendix D. It is suggested that independent study of the cost-effectiveness of RDII reduction be performed.

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1/28/2013	10AM	1/16/2013	8AM	1/21/2013	HWY 45 NORTH, EAST MERIDIAN SEWAGE PLANT	MANHOLE	CREEK	142,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	10AM	1/16/2013	12NOON	1/23/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	CREEK	151,200	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	1PM	1/23/2013	7PM	1/23/2013	29TH AVENUE, MULTI-COUNTY	MANHOLE	CREEK	1,500	BLOCKAGE IN SEWER LINE	COLLECTED DEBRIS	SPREAD LIME OVER AREA	
2/1/2013	11AM	1/30/2013	8PM	1/30/2013	HWY 45 NORTH, ENTRANCE TO EAST SEWER PLANT	MANHOLE	CREEK	8,100	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS	SPREAD LIME OVER AREA	
2/1/2013	11AM	1/30/2013	8PM	1/30/2013	SOWASHEE STREET	MANHOLE	CREEK	2,700	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS	SPREAD LIME OVER AREA	
2/1/2013	11AM	1/30/2013	8PM	1/30/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	CREEK	10,800	EXCESSIVE RAINFALL - ABOUT 2 INCHES			
2/1/2013	11AM	1/30/2013	8PM	1/30/2013	HWY 11/80 AT CRACKER BARREL	MANHOLE	CREEK	5,400	EXCESSIVE RAINFALL - ABOUT 2 INCHES			
2/11/2013	5PM	2/6/2013	2PM	2/7/2013	CHIP PICKERING DRIVE	MAIN LINE	CREEK	300,000	BREAK IN LINE	SPREAD LIME OVER AREA	REPAIRED LINE	
2/14/2013	1PM	2/13/2013	10PM	2/13/2013	65TH AVENUE	MANHOLE	CREEK	10,800	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13			
2/14/2013	9AM	2/12/2013	11PM	2/12/2013	40TH AVENUE & 26 STREET	MANHOLE	CREEK	2,520	EXCESSIVE RAINFALL - 2.9 INCHES 2/11/2013 TO 2/12/2013	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	9AM	2/12/2013	11PM	2/12/2013	26 & 41ST STREET	MANHOLE	CREEK	4,200	EXCESSIVE RAINFALL - 2.9 INCHES 2/11/2013 TO 2/12/2013	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	8PM	2/10/2013	X	2/13/2013	HWY 45 NORTH (EAST SEWER PLANT ENTRANCE)	MANHOLE	CREEK	42,000	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	8PM	2/10/2013	6PM	2/13/2013	HWY 11 & 80 AT CRACKER BARREL	MANHOLE	CREEK	70,800	EXCESSIVE RAINFALL - 6.74 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	8PM	2/10/2013	6PM	2/13/2013	HWY 11 & 80, BEHIND STRIBLING EQUIPMENT	MANHOLE	CREEK	84,000	EXCESSIVE RAINFALL - 6.74 INCHES BETWEEN 2/10/13 TO 2/12/13	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	6PM	2/11/2013	10PM	2/12/2013	SOWASHEE STREET	MANHOLE	CREEK	4,800	EXCESSIVE RAINFALL - 2.9 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	8PM	2/10/2013	10AM	2/11/2013	SOWASHEE STREET	MANHOLE	CREEK	4,200	EXCESSIVE RAINFALL - 3.48 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	IDENTIFY I & I, SPOTS IN LINE AND MAKE SPOT REPAIRS, TWO BREAKS AND ONE MANHOLE HAVE BEEN IDENTIFIED, REPAIRS BEGAN 2/14/2013 ON THESE	
2/14/2013	8PM	2/10/2013	10AM	2/11/2013	HWY 145 & SOWASHEE STREET	MANHOLE	CREEK	1,680	EXCESSIVE RAINFALL - 3.48 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
2/14/2013	1PM	2/13/2013	2PM	2/13/2013	OLD 8TH STREET	MANHOLE	CREEK	300	PUMP FAILURE DUE TO RAGS PREVENTING IMPALERS FROM TURNING	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	PULLED PUMP TO BE REPAIRED	
3/19/2013	2PM	3/11/2013	7PM	3/11/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	CREEK	6,000	EXCESSIVE RAINFALL - 1.5 INCHES	SPREAD LIME OVER AREA		
3/19/2013	2PM	3/11/2013	7PM	3/11/2013	HWY 11/80 AT CRACKER BARREL	MANHOLE	CREEK	3,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
3/19/2013	2PM	3/11/2013	7PM	3/11/2013	PARKWAY BOULEVARD	MANHOLE	CREEK	600	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
3/19/2013	2PM	3/11/2013	7PM	3/11/2013	SOWASHEE STREET	MANHOLE	CREEK	900	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
3/19/2013	2PM	3/11/2013	7PM	3/11/2013	65TH AVENUE	MANHOLE	DITCH	3,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
3/19/2013	2PM	3/11/2013	8PM	3/12/2013	HWY 45 NORTH, EAST MERIDIAN SEWAGE PLANT	MANHOLE	CREEK	9,000	EXCESSIVE RAINFALL - 1.5 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
3/21/2013	6PM	2/17/2013	10AM	2/18/2013	100 TO 65TH AVENUE	MANHOLE	CREEK	10,000	EXCESSIVE RAINFALL - 8 INCHES THE WEEK PRIOR, PIPE RESTRICTION DUE TO JOINT FAILURE ALLOWING DIRT INTO SEWER LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE AND WASHED LINE	
3/21/2013	10PM	3/18/2013	11AM	3/19/2013	CHIP PICKERING DRIVE	PRESSURE LINE	CREEK	177,000	BREAK IN LINE	SHUT OFF PUMP STATION	REPAIRED LINE	
3/21/2013	9AM	3/18/2013	6PM	3/19/2013	HWY 45 NORTH, EAST MERIDIAN SEWAGE PLANT	MANHOLE	CREEK	3,800	INFLOW & PIPE RESTRICTION	JETTED LINE TO ALLOW MORE FLOW THROUGH LINE, COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
3/21/2013	X	3/19/2013	1PM	3/19/2013	34TH & 10TH AVENUE	LINE	CREEK	60,000	BANK COLLAPSED SHIFTING THE LINE, WHICH CAUSED THE RUBBERS IN PIPE JOINTS TO PUSH OUT	X	REPAIRED LINE	
3/29/2013	3PM	3/24/2013	4:30PM	3/24/2013	4524 HWY 39 NORTH	MANHOLE	CREEK	180	GREASE BLOCKAGE	JETTED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	
3/29/2013	11:30AM	3/24/2013	2PM	3/27/2013	X	MANHOLE	CREEK	8,940	I & I, PIPE RESTRICTION	COLLECTED DEBRIS		
5/1/2013	7AM	5/1/2013	X	X	EAST SEWER PLANT	MANHOLE	CREEK	55,000	EXCESSIVE RAINFALL - 1.5 INCHES	REMOVE DEBRIS AND SPREAD LIME OVER AREA		
5/13/2013	7:30AM	5/10/2013	12PM	5/11/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	CREEK	60,000	EXCESSIVE RAINFALL - 2 INCHES	REMOVE DEBRIS AND SPREAD LIME OVER AREA		
5/13/2013	7:30AM	5/10/2013	12PM	5/11/2013	EAST SEWER PLANT	MANHOLE	CREEK	75,000	EXCESSIVE RAIN - 2 INCHES	LIME AREA		
7/10/2013	9:30AM	5/13/2013	1:30AM	5/17/2013	29TH AVENUE & SOWASHEE CREEK	24" SEWER LINE	SOWASHEE CREEK	120,000	BLOCKAGE IN LINE, SEE ATTACHMENT	REPAIR SEWER LINE, FLUSHED LINE AND CLEANED UP DEBRIS, LIME PUT DOWN OVER AREA	AT THIS TIME WE ARE LOOKING TO REPLACE ABOUT 200' OF 24" SEWER LINE	
8/15/2013	12AM	8/13/2013	10:30AM	8/14/2013	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	CREEK	10,500	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
8/15/2013	12AM	8/13/2013	9AM	8/14/2013	HWY 45 NORTH, WASTE WATER TREATMENT PLANT (EAST)	MANHOLE	CREEK	13,200	EXCESSIVE RAINFALL - 4 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		

City of Meridian
List of SSOs

Date of SSO	City Notified of SSO Event		SSO Ceased		Location of SSO		Ultimate Destination of SSO	Volume of SSO, (gal) (approx.)	Cause of SSO	Corrective Actions to Stop SSO	Corrective Action to Prevent Future SSOs	Miscellaneous Information
	Time	Date	Time	Date	Location	Source						
3/20/2009	6AM	3/16/2009	4PM	3/16/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	6,500	POWER OUTAGE AT WASTEWATER TREATMENT PLANT & RAINFALL OF 2 INCHES	MS POWER HAD ELECTRICAL COMPONENTS SHIPPED OVERNIGHT TO CORRECT PROBLEM	PARTS INSTALLED BY MS POWER	
3/23/2009	3PM	3/18/2009	6PM	3/20/2009	WEST OF 29TH AVENUE & NORTH OF ST. PAUL STREET, IN THE WOODS	HOLE IN PIPE	SOWASHEE CREEK	12,000	HOLE IN PIPE, COLLAPSED PIPE	DEBRIS REMOVED FROM PIPE WITH FLUSH TRUCK, CHLORINE TABLETS ADDED TO OVERFLOW	COLLAPSED PIPE REPAIRED	
5/1/2009	X	3/16/2009	X	4/7/2009	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	160,000	I & I, FAILURE OF PIPE DOWN STREET THAT BLOCKED & RESTRICTED FLOW - 4.5 INCHES OF RAINFALL	MISCELLANEOUS LINE REPAIRS ON 24" PIPE. CREW CLEANED UP DEBRIS AND LIME WAS SPREAD OVER ENTIRE AREA	PLAN TO UPGRADE 24" LINE TO 36" LINE TO PREVENT FUTURE SSOs.	CITY OF MERIDIAN BYPASS REPORT INCLUDED SUPPLEMENTAL REPORT OF EVENT
12/23/2009 OR 1/14/2010	10:30AM	12/18/2009	2PM	12/21/2009	HAMILTON AVENUE	MANHOLE	SOWASHEE CREEK	170,000	EXCESSIVE RAINFALL - 3.5 INCHES TO 4 INCHES	X	X	
1/19/2010	12PM	1/13/2010	10AM	1/14/2010	FRED CLAYTON ROAD	PRESSURE LINE	LOST HORSE CREEK	290,000	BROKEN LINE	X	REPAIRED LINE	
3/15/2010	MIDNIGHT	3/10/2010	X	X	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	75,000	EXCESSIVE RAINFALL - 2+ INCHES	CITY CREWS WORKING ON PROBLEM AT CHIP MILL	X	
3/23/2010	MIDNIGHT	3/10/2010	9:45AM	3/16/2010	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	95,000	EXCESSIVE RAINFALL - 2+ INCHES	CITY CREWS WORKING ON PROBLEM AT CHIP MILL	PLANS ARE BEING PUT IN PLACE TO INCREASE CAPACITY IN LINE	
11/24/2010	7AM	11/24/2010	10:30AM	11/24/2010	26TH STREET/2606 EDGEWOOD DRIVE	MANHOLE	SOWASHEE CREEK	80,000	ROOTS IN MANHOLE	FLUSH TRUCK 'SHOT LINE' & OPEN IT	CREW CUT ROOTS OUT OF MANHOLE	(ATTACHED PICTURES)
2/10/2011	X	1/31/2011	X	X	HILLCREST DRIVE	MANHOLE	X	2,500	TREE ROOTS		PLANS TO REPLACE MANHOLE & REMOVE TREE THIS WEEK - WEATHER PERMITTING	(ATTACHED PICTURES)
3/10/2011	10PM	3/8/2011	2AM	3/9/2011	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	35/MINUTE	EXCESSIVE RAINFALL - 6 INCHES			
3/10/2011	8PM	3/8/2011	X	X	HWY 11/80 & RUSSELL DRIVE ON 8 INCH LINE THAT CONNECTS TO A 24 INCH LINE	MANHOLE	SOWASHEE CREEK	150/MINUTE, DOWN TO 15/MINUTE AS OF 3/10/2011 AT 3:30PM	EXCESSIVE RAINFALL - 6 INCHES			
3/10/2011	8PM	3/8/2011	X	X	HWY 11/80 AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	50/MINUTE, DOWN TO 5/MINUTE AS OF 3/10/2011 AT 3:30PM	EXCESSIVE RAINFALL - 6 INCHES			
4/29/2011	5PM	4/28/2011	8PM	4/28/2011	HWY 11/80 AT STRIBLING EQUIPMENT	MANHOLE	CREEK	225	I & I, 3 INCHES OF RAIN, AS WELL AS PREVIOUS RAIN IN PAST 2 WEEKS			
7/14/2011	X	6/16/2011	2PM	7/6/2011	15TH PLACE	MANHOLE	CREEK	250,000	COMBINATION OF ROOTS & GREASE, A COLLAPSED LINE	JETTED & BROKE THE BLOCKAGE, REPLACED DAMAGED LINE	REPLACED LINE	NOTIFIED OF BAD SEWER ODOR ON JULY 5, 2011
7/26/2011	3:30PM	7/25/2011	4:30PM	7/25/2011	56TH AVENUE @ ROYAL ROAD	MANHOLE	GHALLAGER CREEK	1,000	EXCESSIVE RAINFALL - 1 INCH	CLEANED DEBRIS (SMALL AMOUNTS OF PAPER & GREASE) & SPRAYED DISINFECTANT OVER ENTIRE AREA		
11/18/2011	7AM	11/16/2011	1PM	11/16/2011	OLD 8TH STREET & 70TH PLACE	PUMP STATION	CREEK	12,000	PUMP FAILURE	CLEANED DEBRIS & USED DISINFECTANT TO KILL BACTERIA IN THE AREA	PUMP REPAIRED	(ATTACHED PICTURES)
11/21/2011	2:30PM	11/18/2011	10:30PM	11/18/2011	29TH AVENUE, SOUTH BANK, APPROXIMATELY 200 YARDS WEST OF 29TH AVENUE BRIDGE	MANHOLE	SOWASHEE CREEK	100/MINUTE	CAVE-IN, STORMWATER DRAIN	DIRT REMOVED TO ALLOW SEWAGE TO FLOW, TRENCH BOX PUT INTO PLACE TO PROTECT THE LINE	LINE WILL BE REPLACED WITH A LARGER LINE	(ATTACHED PICTURES)
12/2/2011	10AM	11/30/2011	1AM	12/1/2011	29TH AVENUE	MAIN LINE	SOWASHEE CREEK	700,000	PUMP FAILURE & SEPARATION IN LINE	SWITCHED OUT PORTABLE PUMP	REPAIRED LINE, LIME WAS SPREAD OVER ENTIRE AREA	(ATTACHED PICTURES)
1/3/2012	10AM	12/29/2011	2:30PM	12/29/2011	11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	20/MINUTE	GREASE BLOCKAGE	GREASE REMOVED BY FLUSH TRUCK	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
1/27/2012	10AM	1/26/2012	2PM	1/26/2012	5310 OVERBROOK LANE	MANHOLE	X	10/MINUTE	GREASE BLOCKAGE & INFLOW	JETTED LINE TO BREAK BLOCKAGE & RESUME NORMAL FLOW	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
1/27/2012	10AM	1/26/2012	5PM	1/26/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	20/MINUTE	INFLOW - 3 INCHES OF RAIN		DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
1/27/2012	10AM	1/26/2012	6PM	1/26/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	20/MINUTE	INFLOW - 3 INCHES OF RAIN		DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
1/27/2012	9AM	1/26/2012	2PM	1/26/2012	26TH STREET & 40TH AVENUE	MAIN LINE	X	4,500	INFLOW - 3 INCHES OF RAIN		DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
2/3/2012	8AM	1/27/2012	10AM	1/30/2012	3109 GRANDVIEW AVENUE	LINE	CREEK	15/MINUTE	BROKEN PIPE		REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	
2/3/2012	1PM	1/30/2012	2PM	1/31/2012	5525 CHEROKEE ROAD	MANHOLE	CREEK	10/MINUTE	BROKEN PIPE		REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	
2/3/2012	11AM	2/2/2012	6PM	2/2/2012	600 FRONTAGE ROAD	LINE	CREEK	60/MINUTE	BROKEN PIPE		REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	
2/3/2012	11AM	2/2/2012	5PM	2/2/2012	2900 SAINT PAUL STREET	LINE	CREEK	60/MINUTE	BROKEN PIPE		REPLACED BROKEN PIPE, LIME WAS SPREAD OVER ENTIRE AREA	
3/2/2012	10AM	2/28/2012	6PM	2/28/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	9,600	INFLOW - 1 INCH OF RAIN		DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
3/2/2012	10AM	2/28/2012	8:30AM	2/29/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	168,750	GREASE BLOCKAGE	GREASE REMOVED BY FLUSH TRUCK	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
3/26/2012	4PM	3/21/2012	7AM	3/24/2012	SOWASHEE STREET	MANHOLE	SOWASHEE CREEK	96,000	EXCESSIVE RAINFALL - 3.5 INCHES	WORK ON PROBLEM AT CHIP MILL	PLANS TO REPLACE OLD SEWER LINE, INCREASE NEW LINE	
3/26/2012	4PM	3/21/2012	7AM	3/24/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	SOWASHEE CREEK	65,000	EXCESSIVE RAINFALL - 3.5 INCHES	CLEANED UP	PLANS TO INCREASE LINE AT CHIP MILL	
3/26/2012	4PM	3/21/2012	7AM	3/24/2012	HWY 11/80 EAST & RUSSELL STREET, BEHIND STRIBLING EQUIPMENT	MANHOLE	SOWASHEE CREEK	100,000	EXCESSIVE RAINFALL - 3.5 INCHES	X	PLANS TO INCREASE LINE AT CHIP MILL	
4/2/2012	10:30AM	3/29/2012	11:15AM	3/29/2012	HWY 11/CELOTX	MANHOLE	CREEK	600,000	PUMP STATION FAILURE	X	PUMP WAS RESET, LIME WAS SPREAD OVER THE ENTIRE AREA	
6/25/2012	7AM	6/25/2012	8:30AM	6/25/2012	HWY 39, NUMBER 1 LIFT STATION	PUMP STATION	CREEK	50,000	POWER FAILURE	X	RESTORED POWER, COLLECTED ALL DEBRIS, SPREAD LIME OVER THE ENTIRE AREA	
8/1/2012	8PM	7/26/2012	8:30AM	7/27/2012	29TH AVENUE	MANHOLE	NONE	35,000	BROKEN LINE	REPAIRED LINE	DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
8/20/2012	3:30PM	8/18/2012	6PM	X	TOMMY WEBB DRIVE	MANHOLE	SOWASHEE CREEK	200,000	I & I, 2 INCHES OF RAINFALL	X	X	
1/4/2013	3:30PM	12/28/2012	X	12/29/2012	HWY 45 SOUTH, BEHIND MS POWER	MANHOLE	CREEK	350,000	BLOCKAGE	FLUSHED LINE & CLEANED DEBRIS	LIME WAS SPREAD OVER ENTIRE AREA	
1/4/2013	8PM	12/29/2012	11PM	12/29/2012	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	CREEK	18,000	EXCESSIVE RAINFALL		DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
1/4/2013	8PM	12/30/2012	11PM	12/30/2012	SOWASHEE STREET	MANHOLE	DITCH	1,800	EXCESSIVE RAINFALL - 1.5 INCHES		DEBRIS COLLECTED & REMOVED, LIME WAS SPREAD OVER ENTIRE AREA	
1/14/2013	7PM	1/12/2013	6AM	1/13/2013	HWY 45 NORTH, WASTE WATER TREATMENT PLANT (EAST)	MANHOLE	CREEK	13,200	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
1/14/2013	6M	1/12/2013	X	X	HWY 11/80 EAST AT CRACKER BARREL	MANHOLE	CREEK	20-30/MINUTE	EXCESSIVE RAINFALL - ABOUT 2 INCHES	COLLECTED DEBRIS		
1/14/2013	6PM	1/12/2013	6AM	1/13/2013	SOWASHEE STREET	MANHOLE	CREEK	10,800	EXCESSIVE RAINFALL - 2 INCHES	COLLECTED DEBRIS AND SPREAD LIME OVER AREA		
1/28/2013	10AM	1/16/2013	10AM	1/19/2013	SOWASHEE STREET	MANHOLE	CREEK	51,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	COLLECTED DEBRIS AND SPREAD LIME OVER AREA	REPAIRED LINE	
1/28/2013	10AM	1/16/2013	8AM	1/17/2013	HWY 11/80, BEHIND STRIBLING EQUIPMENT	MANHOLE	CREEK	66,000	EXCESSIVE RAINFALL - ABOUT 8 INCHES FOR THE MONTH, A COLLAPSED LINE	SPREAD LIME OVER AREA	REPAIRED LINE	

Flow Monitoring Data Obtained for East Meridian Pump Station Design

Site Name	Meridian MH3	Meridian MH5	Meridian MH3	Meridian MH5	Daily Total Max and Time	Daily Total Max and Time	Meridian	Flow Rate	Max	Rainfall
Isco Quantity	Volume	Volume	Flow Rate	Max	Flow Rate	Max	Volume	Marion Max Flow Rate	Max	Daily Rainfall
Label	MH3 Daily Total	MH5 Daily Total	MH3 Daily Max Flow	Max	MH5 Daily Max Flow	Max	Marion Daily Total	gpm	Date/Time	in
Units	mgal	mgal	gpm	Date/Time	gpm	Date/Time	mgal			
Resolution	0.1	0.1	0.1	N/A	0.1	N/A	0.1	0.1	N/A	0.1
Significant Digits	0	0	0	N/A	0	N/A	0	0	N/A	0
11/19/2013 0:00	0.252	0.423	282.495	7:55:00 PM	572.313	7:50:00 PM	0.171	318.444	12:05:00 PM	0
11/20/2013 0:00	0.223	0.437	246.787	8:55:00 PM	645.33	8:55:00 PM	0.213	462.621	9:55:00 PM	0
11/21/2013 0:00	0.228	0.472	289.641	8:25:00 PM	647.989	8:50:00 PM	0.244	428.652	7:15:00 PM	0
11/22/2013 0:00	0.257	0.527	269.951	4:40:00 PM	676.29	7:55:00 PM	0.269	443.784	10:55:00 PM	0.16
11/23/2013 0:00	0.327	0.575	458.44	3:00:00 PM	825.237	2:50:00 PM	0.248	432.88	10:20:00 AM	0.04
11/24/2013 0:00	0.296	0.538	305.608	9:50:00 AM	677.994	4:15:00 PM	0.242	432.821	9:15:00 PM	0
11/25/2013 0:00	0.455	0.687	768.689	6:50:00 PM	1100.15	11:20:00 PM	0.231	624.325	6:10:00 PM	2.24
11/26/2013 0:00	1.051	1.468	859.972	9:35:00 PM	1249.79	11:25:00 PM	0.417	518.774	7:05:00 PM	1.54
11/27/2013 0:00	0.887	1.393	760.317	1:20:00 AM	1214.15	1:50:00 AM	0.505	638.853	11:25:00 PM	0
11/28/2013 0:00	0.462	1.14	652.406	12:30:00 PM	1287.28	1:30:00 PM	0.678	827.89	1:30:00 PM	0
11/29/2013 0:00	0.362	0.683	414.859	12:30:00 PM	906.714	9:50:00 AM	0.321	643.151	9:50:00 AM	0
11/30/2013 0:00	0.341	0.717	427.53	12:45:00 PM	817.976	1:05:00 PM	0.376	460.749	9:40:00 PM	0
12/1/2013 0:00	0.326	0.699	408.934	10:50:00 AM	741.761	11:20:00 AM	0.373	471.809	11:20:00 AM	0
12/2/2013 0:00	0.312	0.721	331.285	10:20:00 AM	770.867	10:05:00 AM	0.409	499.647	9:25:00 AM	0.01
12/3/2013 0:00	0.31	0.719	371.689	9:45:00 PM	743.694	9:20:00 PM	0.409	467.213	3:40:00 PM	0
12/4/2013 0:00	0.302	0.656	391.854	12:45:00 PM	739.957	12:50:00 PM	0.355	462.878	9:50:00 AM	0
12/5/2013 0:00	0.305	0.63	366.007	10:05:00 PM	710.217	10:08:00 PM	0.325	439.806	9:20:00 PM	0.15
12/6/2013 0:00	0.481	0.822	791.809	10:30:00 PM	1184.68	7:06:00 PM	0.327	433.8	10:40:00 AM	0.2
12/7/2013 0:00	0.438	0.831	599.19	12:10:00 AM	950.808	12:14:00 AM	0.391	480.089	2:10:00 PM	0
12/8/2013 0:00	0.74	1.122	819.161	12:15:00 PM	1258.23	6:08:00 PM	0.389	528.508	7:20:00 PM	2.44
12/9/2013 0:00	1.042	1.58	797.314	10:40:00 AM	1312.11	6:22:00 PM	0.533	587.42	10:20:00 PM	0.11
12/10/2013 0:00	1.041	1.64	825.643	6:35:00 AM	1348.14	1:06:00 AM	0.603	591.764	3:30:00 PM	0.11
12/11/2013 0:00	0.904	1.436	764.768	7:20:00 AM	1203.89	3:00:00 PM	0.531	562.045	3:00:00 PM	0
12/12/2013 0:00	0.757	1.24	655.544	4:30:00 PM	1078.31	8:50:00 PM	0.483	514.174	2:40:00 AM	0
12/13/2013 0:00	0.651	1.043	644.648	2:15:00 PM	984.259	12:28:00 AM	0.391	471.461	12:30:00 AM	0
12/14/2013 0:00	0.8	1.229	766.943	10:35:00 AM	1178.84	7:14:00 PM	0.428	484.908	7:10:00 PM	0.29
12/15/2013 0:00	0.653	1.178	668.208	9:35:00 PM	1073.12	1:06:00 PM	0.535	510.166	3:50:00 PM	0
12/16/2013 0:00	0.57	1.031	570.102	9:25:00 AM	1044.4	9:26:00 AM	0.472	523.38	3:20:00 PM	0.01
12/17/2013 0:00	0.348	0.825	319.651	8:35:00 PM	784.073	10:22:00 AM	0.48	484.069	10:30:00 AM	0
12/18/2013 0:00	0.314	0.79	284.64	10:15:00 PM	795.125	11:22:00 AM	0.487	547.906	11:30:00 AM	0.01
12/19/2013 0:00	0.138	0.314	263.299	9:15:00 AM	717.285	10:02:00 AM				

Legend

mgal = million gallons

gpd = gallons per day

in = inches

ICIS FACILITY AND PERMITTING DATA INFORMATION FORM

FORM CAN BE EMAILED ALONG WITH PERMIT (PERFERABLE)

NPDES PERMIT NO: MS0020117

AI NO: 13261

FACILITY SITE NAME: Meridian POTW

TRANSACTION TYPE: Select Transaction Type

MODIFICATION TO PERMIT OR FACILITY (Please give modification details in this section)

What type of modification: (NAME CHANGE/TRANSFER, MODIFICATION TO OUTFALL, BEGIN PHASE II LIMITS, ETC)
For Modifications, attach PAF form along with permit and ICIS form (send via email or interoffice mail).

TERMINATE PERMIT: DATE OF TERMINATION: Enter Termination Date
(TERMINATION OF PERMIT IS IRREVERSIBLE; PERMIT NUMBER CAN NOT BE USED AGAIN. PERMIT GOES AWAY!)
Termination of permit does not terminate the facility or make it inactive in ICIS; facility has no status.

ADDRESS1: 311 27th Avenue

ADDRESS2: <NO_DATA_FOUND>

CITYMeridian,

STATE: MS

ZIP CODE: 39301

COUNTY: 075

TELEPHONE NUMBER: (601) 485-1920

SUB-REGION: CRO

NAICS: Enter NAICS Code

SIC CODE: 4952

PERMIT WRITER: Dmitriy Asanov

BRANCH CODE: MUNPR

TYPE OF APPLICATION:Select Application Type

FACILITY TYPE: Select Facility Type

FACILITY OWNERSHIP: Select Facility Ownership

FEDERAL AGENCY:

ENVIRONMENTAL JUSTICE:

TRIBAL LANDS:

OWNER'S INFORMATION

ORGANIZATION FORMAL NAME:

COGNIZANT OFFICIAL: Mr. Terry Cook Jr.

PHONE: (601) 485-1920

ADDRESS:

CITY:

STATE:

ZIP CODE:

ICIS FACILITY AND PERMITTING DATA INFORMATION FORM

FACILITY GEOGRAPHIC DATA

LATITUDE: +32201872

LONGITUDE: 088441884

SECTION/TOWNSHIP/RANGE: Section: , Township: , Range:

HORIZONTAL ACCURACY MEASURE:

GEOMETRIC TYPE:

HORIZONTAL COLLECTION METHOD: 8

HORIZONTAL REFERENCE DATA: 2

FACILITY SOURCE MAP SCALE NUMBER: N

LAT/LONG DESCRIPTION FIELD: 02099

REFERENCE POINT:

HYDROLOGIC BASIN CODE: 03170001

ISSUE DATE: 11/14/13

EFFECTIVE DATE: <NO_DATA_FOUND>

EXPIRATION DATE: <NO_DATA_FOUND>

WATER BODY (RECEIVING WATERS): Directly into

RIVER BASIN: Pascagoula River Basin
Select Code

TOXIC AND BIOASSAY CODE:

FOR PRETREATMENT PERMITS ONLY:

CIU - CATEGORICAL INDUSTRIAL USER CODES (A-G):Select CIU Code

CIU - CATEGORICAL INDUSTRIAL USER CODES (H-O):Select CIU Code

CIU - CATEGORICAL INDUSTRIAL USER CODES (P-Z):Select CIU Code

DMR RECIPIENT MAILING ADDRESS
(For General Permits Only)

DMR RECIPIENT NAME:

PHONE:

RELATIONSHIP TO FACILITY:

ADDRESS:

CITY:

STATE:

ZIP CODE:

PHONE:

ICIS FACILITY AND PERMITTING DATA INFORMATION FORM

PRIMARY DMR MAILING ADDRESS
(Permits other than general permits)

MAILING ADDRESS1: PO Box 1430

MAILING ADDRESS2: <NO_DATA_FOUND>

CITY: Meridian, STATE: Mississippi

ZIP CODE: 39302-1430

ALTERNATE DMR MAILING ADDRESS

MAILING ADDRESS1: PO Box 1430

MAILING ADDRESS2: <NO_DATA_FOUND>

CITY: Meridian,

STATE: Mississippi

ZIP CODE: 39302-1430

PERMITTED FEATURE (OUTFALL) GEOGRAPHIC DATA					
PERMITTED FEATURE (OUTFALL)	LIMIT SET DESIG- NATOR	LATITUDE	LONGITUDE	LAT/ LONG METHOD	USGS HYDROGOLIC BASIN CODE
MS0020117-001	Select Design	+3220187	-08844188	8	03170001
MS0020117-101	Select Design	+3220187	-08844188	8	
MS0020117-201	Select Design	+3232565	-088353010	8	
MS0020117-002	Select Design	+3220187	-08844188	8	03170001

GEOMETRIC TYPE:

REFERENCE POINT:

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

USE THE SPACE TO ADD COMMENTS OR INSTRUCTIONS TO APPEAR ON THE BOTTOM OF THE DMR WHEN IT IS PREPRINTED FOR THE FACILITY.

NARRATIVE CONDITIONS (special permit conditions, with or without dates)

Permit Action Form
Meridian POTW
311 27th Avenue
Lauderdale County
Meridian, MS 39301

Branch Manager: Bradley Crain
SIC: 4952

Recommendations

Folder No. – Activity Type

PER20120003 - MA-Water-NPDES

Permit No.

MS0020117

DEQ Contact

Dmitriy Asanov

Action:

☐ Issue

☐ Modification

☐ Transfer

☐ Revoke

☒ Reissue

☐ Name Change

☐ Deny

By:

☐ Division Chief

☒ Permit Board ←

☐ Terminate

Programs:

Master File

Program	Sub Program	Start Date	End Date	Delete
Water	NPDES Major Municipal	03/14/1995		<input type="checkbox"/>

Marked subprograms should be deleted from the master file by the Master File Administrator

Permit Application

Program	Sub Program	Start Date	End Date
Water	NPDES Major Municipal	03/14/1995	

Air Use Only:

☐ Emissions data entered in enSite

☐ Emissions data prepared using Lotus 1-2-3 (Attached)

☐ Permitting action did not change emissions inventory.

☐ AFS form completed.

TMDL Use Only:

'Y' indicates conformance with published TMDLs, 'N' indicates non-conformance.

Published TMDL	FLAG
<NO DATA FOUND>	

Basis:

State of Mississippi Water Quality Criteria, Water Quality Based Effluent Limitations, Water Quality Criteria, Wasteload Allocation (WLA), Total Maximum Daily Load (TMDL)

Coordination

Comments:

The City of Meridian has reached an agreement to supply the treated effluent from both of the City's wastewater treatment POTWs to the Mississippi Power Kemper County facility. The treated effluent will be stored in a reservoir and used for cooling equipment and power steam generators. This will result in limited discharges to Sowashee Creek. The East Meridian POTW will have the ability to pump treated



wastewater directly to the Kemper County facility, or be pumped to the Meridian POTW outfall line. This will result in no further effluent discharges at the current East Meridian POTW outfall line upon the completion of the infrastructure. This draft will contain four (4) monitored outfalls. Outfall 001 will represent the current Meridian POTW treated effluent outfall line into Sowashee Creek. Outfall 002 will represent the combined treated effluent discharges from Meridian POTW and East Meridian POTW. The discharge location for Outfall 002 will be the current Meridian POTW treated effluent outfall line into Sowashee Creek. Outfall 101 will represent an internal outfall after final treatment by Meridian POTW. Outfall 201 will represent an internal outfall after final treatment by East Meridian POTW. Upon construction completion of the infrastructure to connect the wastewater treatment systems to the Kemper County facility the permittee will be regulated by the limitations for Outfall 002, 101, and 201. At that point limitations for Outfall 001 will not apply. The combined effluent discharge will not exceed the current permitted flow of 13 mgd.

Administrative Tasks

Task	Scheduled Date	Completed Date
Application Received	11/15/2012	11/5/2012
Complete Application Received	1/4/2013	4/26/2013
Draft Permit and Rationale Prepared	5/26/2013	4/26/2013
Public Notice Issued	6/10/2013	6/27/2013
Public Notice Completed	7/27/2013	7/27/2013
Process Public Comments	8/6/2013	
Prepare Final Permit/Decision and Supporting Documents		
Issue Permit		NOV 14 2013
Transmittal of Final Permit		
Letter Acknowledging Receipt of Application Issued	11/7/2012	11/15/2012
Early Public Notice of Application Complete	12/6/2012	12/19/2012
Permit Expiration Date		
Draft Permit Sent to Supervisor	4/28/2013	4/26/2013
Administrative Completeness Determined/	12/20/2012	4/26/2013
Administrative Completeness Letter Sent if Needed		
EPA review of NPDES "targeted" Permit Begins		4/26/2013

Existing Permits

Permit Number	Description
Water - NPDES	MS0020117

Requirement Profiles:

Category	ID	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
AI	13261	Permit Shell	Individual Permit	Water	NPDES	Municipal Facility			

ICIS FACILITY AND PERMITTING DATA INFORMATION FORM

NPDES PERMIT NO: MS0020117

AI NO: 13261

FACILITY SITE NAME: Meridian POTW

TRANSACTION TYPE: REISSUANCE/RENEWAL

MODIFICATION TO PERMIT OR FACILITY (Please give modification details in this section)

What type of modification: (NAME CHANGE/TRANSFER, MODIFICATION TO OUTFALL, BEGIN PHASE II LIMITS, ETC)
Or attach Permit Transmittal Form along with permit and ICIS form.

TERMINATE PERMIT: DATE OF TERMINATION: Enter Termination Date
(TERMINATION OF PERMIT IS IRREVERSIBLE; PERMIT NUMBER CAN NOT BE USED AGAIN. PERMIT GOES AWAY!)
Termination of permit does not terminate the facility or make it inactive in ICIS; facility has no status.

ADDRESS1: 311 27th Avenue

ADDRESS2: <NO DATA FOUND>

CITY Meridian, STATE: MS

ZIP CODE: 39301 COUNTY: Lauderdale

TELEPHONE NUMBER: (601) 485-1920 SUB-REGION: CRO

NAICS: 221320 SIC CODE: 4952 PERMIT WRITER: Dmitriy Asanov

BRANCH CODE: MUNPR TYPE OF APPLICATION: 2A - MUNICIPAL

FACILITY TYPE: MUNICIPAL

FACILITY OWNERSHIP: PRIVATE

FEDERAL AGENCY:

ENVIRONMENTAL JUSTICE:

TRIBAL LANDS:

OWNER'S INFORMATION

ORGANIZATION FORMAL NAME:

COGNIZANT OFFICIAL: Mr. Terry Cook Jr.

PHONE: (601) 485-1920

ADDRESS: PO Box 1430

CITY: Meridian

STATE: MS

ZIP CODE: 39302

FACILITY GEOGRAPHIC DATA

LATITUDE: +32201872

LONGITUDE: 088441884

SECTION/TOWNSHIP/RANGE: Section: , Township: , Range:

HORIZONTAL ACCURACY MEASURE:

GEOMETRIC TYPE:

HORIZONTAL COLLECTION MEHTOD: 8

HORIZONTAL REFERENCE DATA: 2

FACILITY SOURCE MAP SCALE NUMBER: N

LAT/LONG DESCRIPTION FIELD: 02099

REFERENCE POINT:

HYDROLOGIC BASIN CODE: 03170001

ISSUE DATE: Enter Issuance Date

EFFECTIVE DATE: <NO DATA FOUND>

EXPIRATION DATE: Enter Expiration Date

AVG DESIGN FLOW: 13.0 (MGD)

WATER BODY (RECEIVING WATERS): Sowashee Creek

RIVER BASIN: Pascagoula River Basin
Select Code

TOXIC AND BIOASSAY CODE:

FOR PRETREATMENT PERMITS ONLY:

CIU - CATEGORICAL INDUSTRIAL USER CODES (A-G):Select CIU Code

CIU - CATEGORICAL INDUSTRIAL USER CODES (H-O):Select CIU Code

CIU - CATEGORICAL INDUSTRIAL USER CODES (P-Z):Select CIU Code

PRIMARY DMR MAILING ADDRESS

MAILING ADDRESS1: PO Box 1430

MAILING ADDRESS2: <NO DATA FOUND>

CITY: Meridian, STATE: Mississippi

ZIP CODE: 39302-1430

ALTERNATE DMR MAILING ADDRESS

MAILING ADDRESS1: PO Box 1430

MAILING ADDRESS2: <NO DATA FOUND>

CITY: Meridian, STATE: Mississippi ZIP CODE: 39302-1430

PERMITTED FEATURE (OUTFALL) GEOGRAPHIC DATA					
PERMITTED FEATURE (OUTFALL)	LIMIT SET DESIG- NATOR	LATITUDE	LONGITUDE	LAT/ LONG METHOD	USGS HYDROGOLIC BASIN CODE
MS0020117-001	A - Monthly	+3220187	-08844188	8	03170001
MS0020117-101	A - Monthly	+3220187	-08844188	8	
MS0020117-201	A - Monthly	+3232565	-088353010	8	
MS0020117-002	A - Monthly	+3220187	-08844188	8	03170001

GEOMETRIC TYPE:

REFERENCE POINT:

PERMITTED (OUTFALL) ID TYPE: External Outfall

PIPE CHARACTERISTIC: Domestic (Sanitary) Wastewater

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Activated Sludge

TREATMENT TYPE (M-Z): Select Treatment Type

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

PERMITTED (OUTFALL) ID TYPE: Select Permitted ID Type

PIPE CHARACTERISTIC: Select Pipe Characteristic

PIPE DESCRIPTION:

TREATMENT TYPE (A-L): Select Treatment Type

TREATMENT TYPE (M-Z): Select Treatment Type

USE THE SPACE TO ADD COMMENTS OR INSTRUCTIONS TO APPEAR ON THE BOTTOM OF THE DMR WHEN IT IS PREPRINTED FOR THE FACILITY.

NARRATIVE CONDITIONS (special permit conditions, with or without dates)

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 001 (Hydrostatic Test Discharge)

RPNT0000000001: MSG130408-001

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chlorine, total residual Effluent</i>	*****	*****	*****	*****	*****	0.019 Semi Maximum	mg/L	Once per Discharge Event	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	*****	Report Semi Maximum	Million Gallons per Day	*****	*****	*****	*****	Once per Discharge Event	Estimate	Jan-Dec
<i>Oil and grease Effluent</i>	*****	*****	*****	*****	*****	15 Semi Maximum	mg/L	Once per Discharge Event	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Once per Discharge Event	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	*****	90 Semi Maximum	mg/L	Once per Discharge Event	Grab Sampling	Jan-Dec

Office
Mississippi Department of
Environmental Quality Permit Board
P. O. Box 2261
Jackson, MS 39225
Telephone No. (601) 961-5171

Public Notice Start Date:

June 27, 2013

MDEQ Contact: Bradley Crain

Deadline For Comment:

July 27, 2013

Meridian POTW, located at 311
27th Avenue, in Meridian, MS,
(601) 484-8835, has applied to
the Mississippi Department of
Environmental Quality for the fol-
lowing permitting action(s): Modifi-
cation to Permit No.
MS0020117. The applicant's op-
erations fall within SIC Code
4952.

Meridian POTW's (MS0020117)
operation is the collection and
treatment of domestic / municipal
wastewater. Two discharge out-
falls (Outfall 001 and Outfall 002)
are described in the draft permit.
Outfall 001 and Outfall 002 de-
scribe the same effluent outfall
line into Sowashee Creek. Outfall
001 represents the current Meri-
dian POTW treated effluent out-
fall line into Sowashee Creek.
Outfall 002 will represent the
combined treated effluent dis-
charges from Meridian POTW
and East Meridian POTW. Out-
fall 101 is an internal outfall rep-
resenting effluent after final treat-
ment by Meridian POTW. Outfall
201 is an internal outfall rep-
resenting effluent after final treat-
ment of East Meridian POTW.
No increase in permitted flow is
requested in the application.

The staff of the Permit Board has
developed this draft permit based
on information submitted to the
Permit Board by the applicant,
appropriate State and Federal
agencies and other interested
parties. The staff of the Permit
Board is soliciting all relative in-
formation pertaining to the pro-
posed activity, including public
comment, to ensure that the final
staff recommendation on the
draft permit complies with all
State and Federal regulations.
Public review and comment on
the draft permit and supporting
documentation is an important el-
ement in the staff evaluation and
resulting recommendation to the
Permit Board. The draft permit
conditions have been developed
to ensure compliance with all
State and Federal regulations but
are subject to change based on
information received as a result
of public participation.

Persons wishing to comment
upon or object to the proposed
determinations are invited to sub-
mit comments in writing to Brad-
ley Crain at the Permit Board's
address shown above, no later
than July 27, 2013. All com-
ments received by this date will
be considered in the formulation
of final determinations regarding
the application(s). A public hear-
ing will be held if the Permit
Board finds a significant degree
of public interest in the proposed
permit(s). The Permit Board is
limited in the scope of its analy-
sis to environmental impact. Any
comments relative to zoning or
economic and social impacts are
within the jurisdiction of local
zoning and planning authorities
and should be addressed to
them.

Additional details about the appli-
cation(s), including a copy of the
draft permit(s), are available by
writing or calling Lorenzo Bodie
at the above Permit Board ad-
dress and telephone number.
Additionally, as a courtesy, for
those with Internet access, a
copy of the proposed draft per-
mit(s) may be found on the Mis-
sissippi Department of Environ-
mental Quality's website at:
<http://opc.deq.state.ms.us/public-notice.aspx>. This information is
also available for review at the
following location(s) during nor-
mal business hours:

Mississippi Department of
Environmental Quality
Office of Pollution Control
515 E. Amite St
Jackson, MS 39201
Meridian Public Library
2517 7th Street
Meridian, MS 39301

Please bring the foregoing to the
attention of persons whom you
know will be interested.

06/25/2013

C. 1 OF MERIDIAN

I, Missy Spears Clerk of The Meridian Star, a newspaper published
daily at Meridian, Mississippi, do solemnly swear that a copy of this notice, as per clipping attached, was
published once a week for 1 weeks in the regular and entire issue of said newspaper, and not in
any supplement thereof, to-wit:

in the issue dated 6/25, 2013, and in the issue dated _____, 20____, and
in the issue dated _____, 20____, and in the issue dated _____, 20____.



1942 Sec. Code, Sec. 1738

Missy Spears Clerk
Sworn to and subscribed before me, this the 25 day of

June, 2013
Joanne Williams Goforth
Notary Public

PERMIT RATIONALE FOR MODIFICATION
Meridian POTW
Lauderdale County
Meridian, Mississippi
Water NPDES No. MS0020117
April 26, 2013

CLASSIFICATION - Municipal Major

DESCRIPTION OF WASTEWATER – Domestic/ Municipal Wastewater

PURPOSE OF MODIFICATION – The City of Meridian has reached an agreement to supply the treated effluent from both of the City's wastewater treatment POTWs to the Mississippi Power Kemper County facility. The NPDES permit was modified on April 25, 2012 to address the agreement for the City of Meridian to supply wastewater Mississippi Power. The infrastructure required to supply the wastewater has been installed, and is in the start-up phase of operation. The City of Meridian requested that the permit be modified again based on actual operational conditions that became apparent during the start-up phase. The following is list of the changes:

- Fecal coliform limitations were removed from internal outfall 101 and 201 due to redundancy. Fecal coliform limitations required at outfall 002 before discharging to Sowashee Creek.
- Chlorine limitations were revised in internal outfall 101 from 0.011 mg/l monthly average to 0.3 mg/l minimum. The 0.3 mg/l limitation is required to ensure that an adequate supply of chlorine is the effluent from 101 to disinfect the effluent from internal outfall 201 when mixed. Outfall 002 has a 0.011 mg/l monthly average limitation to protect Sowashee Creek from chlorine toxicity.
- Corrected the seasonal limitation for BOD5 on internal outfall 101. The limitations were reversed based on the seasons.
- The flow on internal Outfall 201 will be done by calculations based on volume measurement, and not a continuous recorder.
- Sample types that were 24hr composites on internal outfall 201 have been changed to 8hr composites. The discharge period at 201 does not last longer than 8 hours.
- Corrected the seasonal limitations for BOD5 and Ammonia Nitrogen on outfall 002. The limitations were reversed based on the seasons.
- Added the following narrative requirement, "Effluent limitations and monitoring requirements for Outfalls 001, 002, 101, 201 as listed in this permit will only be applicable when the treated effluent from that outfall is ultimately discharged into Sowashee Creek." This means that if the effluent is sent to the Mississippi Power plant, then the effluent limitations and monitoring requirements will not apply.
- Added the following narrative requirement, "The facility shall record and make available upon request the durations of all discharges of treated wastewater from Outfall 002."

DESCRIPTION OF WASTEWATER TREATMENT – For Outfall 001 and Outfall 101 wastewater is collected and treated via second stage activated sludge followed by chlorination disinfection. For Outfall 201 wastewater is collected and treated via a sequencing batch reactor (SBR) followed by UV disinfection and post-aeration. **See attachment No. 1 for flow diagram.**

RECEIVING WATERS- Outfall 001 and 002 will discharge directly to Sowashee Creek. **See attachment No. 2 for discharge location map.** Sowashee Creek is classified as Fish and Wildlife, and is in the Pascagoula River Basin. The discharge is listed in a proposed TMDL for organic enrichment and low do in Sowashee Creek. Hence, a future TMDL may impose more stringent effluent limits. The effluent limitations included in the permit comply with load allocations given in the TMDL. A condition has been added to the permit which allows it to be reopened for revision based on a future TMDL.

The instream wastewater concentration (IWC) 7Q10 at the point of discharge is determined by the following calculation:

IWC calculation is as follows:

Q_w = Design flow of the wastewater treatment facility = 13 MGD or 20.1 cfs

Q_r = Receiving stream 7Q10 = 0.5 cfs

$IWC = (Q_w / (Q_w + Q_r)) * 100 = (20.1 / 20.1 + 0.5) = 97 \%$

APPLICABLE GUIDELINES – State of Mississippi Water Quality Criteria & “Wastewater Regulations for National Pollutant Discharge Elimination System Permits, Underground Injection Control Permits, State Permits, Water Quality Based Effluent Limitations, Water Quality Criteria (MSWQC), Water Quality Certification” applicable. Wasteload Allocation (WLA), Total Maximum Daily Load (TMDL)

SUMMARY OF LIMITATIONS –

Outfall 001 (Current Meridian POTW treated effluent outfall line into Sowashee Creek)

<u>Parameter</u>	<u>Value</u>	<u>Basis</u>
Flow	13.0 MGD	Design
CBOD ₅ (May-Oct)	7 mg/l (Monthly Avg.)	WLA
CBOD ₅ (Nov-Apr)	10 mg/l (Monthly Avg.)	WLA
CBOD ₅ (Percent Removal)	85% Minimum	Technology
TSS	30 mg/l (Monthly Avg.)	Technology
TSS (Percent Removal)	85% Minimum	Technology
NH ₃ -N (May-Oct)	1 mg/l (Monthly Avg.)	WLA
NH ₃ -N (Nov-Apr)	2 mg/l (Monthly Avg.)	WLA
Dissolved Oxygen	≥ 6.0 mg/l (Monthly Avg.)	WLA
Fecal Coliform	200 mg/l (Monthly Avg.)	WPC-2
pH	6.0 – 9.0 SU	WPC-2
Chlorine, Total Residual	0.011 / 0.019 mg/l	WPC-2, IWC
Copper, Total Recoverable	0.0051 / 0.0072 mg/l	WPC-2, IWC
Cyanide (Free – Amen to Chlor.)	0.0053 / 0.0226 mg/l	WPC-2, IWC
Total Nitrogen	Report	*
Total Phosphorus	Report	*

The minimum and maximum values for Dissolved Oxygen in aeration unit and 30-Minute Sludge Settleability in aeration unit must be reported

Outfall 002 (Combined effluent from internal Outfalls 101 and 201 into Sowashee Creek)

<u>Parameter</u>	<u>Value</u>	<u>Basis</u>
Flow	13.0 MGD	Design
CBOD ₅ (May-Oct)	759 lbs/day (Monthly Avg.)	WLA
CBOD ₅ (Nov-Apr)	1084 lbs/day (Monthly Avg.)	WLA
TSS	3253 lbs/day (Monthly Avg.)	Technology
NH ₃ -N (May-Oct)	108 lbs/day (Monthly Avg.)	WLA
NH ₃ -N (Nov-Apr)	217 lbs/day (Monthly Avg.)	WLA
Dissolved Oxygen	≥ 6.0 mg/l (Monthly Avg.)	WLA
Fecal Coliform	200 mg/l (Monthly Avg.)	WPC-2
pH	6.0 – 9.0 SU	WPC-2
Chlorine, Total Residual	0.011 / 0.019 mg/l	WPC-2, IWC
Total Nitrogen	Report	*
Total Phosphorus	Report	*

Outfall 101 (Internal outfall after final treatment by Meridian POTW)

<u>Parameter</u>	<u>Value</u>	<u>Basis</u>
Flow	13.0 MGD	Design
CBOD ₅ (May-Oct)	7 mg/l (Monthly Avg.)	WLA
CBOD ₅ (Nov-Apr)	10 mg/l (Monthly Avg.)	WLA
CBOD ₅ (Percent Removal)	85% Minimum	Technology
TSS	30 mg/l (Monthly Avg.)	Technology
TSS (Percent Removal)	85% Minimum	Technology
NH ₃ -N (May-Oct)	1 mg/l (Monthly Avg.)	WLA
NH ₃ -N (Nov-Apr)	2 mg/l (Monthly Avg.)	WLA
pH	6.0 – 9.0 SU	WPC-2
Chlorine, Total Residual	0.3 mg/l minimum	Calculation
Copper, Total Recoverable	0.0051 / 0.0072 mg/l	WPC-2, IWC
Cyanide (Free – Amen to Chlor.)	0.0053 / 0.0226 mg/l	WPC-2, IWC
Total Nitrogen	Report	*
Total Phosphorus	Report	*

The minimum and maximum values for Dissolved Oxygen in aeration unit and 30-Minute Sludge Settleability in aeration unit must be reported

Outfall 201 (Internal outfall after final treatment by East Meridian POTW)

<u>Parameter</u>	<u>Value</u>	<u>Basis</u>
Flow	13.0 MGD	Design
CBOD ₅ (May-Oct)	7 mg/l (Monthly Avg.)	WLA
CBOD ₅ (Nov-Apr)	10 mg/l (Monthly Avg.)	WLA
CBOD ₅ (Percent Removal)	85% Minimum	Technology
TSS	30 mg/l (Monthly Avg.)	Technology
TSS (Percent Removal)	85% Minimum	Technology
NH ₃ -N (May-Oct)	1 mg/l (Monthly Avg.)	WLA
NH ₃ -N (Nov-Apr)	2 mg/l (Monthly Avg.)	WLA
Fecal Coliform	200 mg/l (Monthly Avg.)	WPC-2
pH	6.0 – 9.0 SU	WPC-2
Total Nitrogen	Report	*
Total Phosphorus	Report	*

The minimum and maximum values for Dissolved Oxygen in aeration unit and 30-Minute Sludge Settleability in aeration unit must be reported

Attachments

- Attachment 1 See September 11, 2011 Application
- Attachment 2 See September 11, 2011 Application
- Attachment 3 See September 11, 2011 Application

***Total Nitrogen and Total Phosphorus monitoring was added to the permit based on Gulf Coast Hypoxia.**

The combined effluent discharge from Outfall 101 and Outfall 201 shall not total over 13 million gallons per day (Monthly Average).

The limitations for East Meridian POTW were reduced from the previous issuance in order to reflect the effluent concentration required by Meridian POTW.

BOD5, NH3-N and DO limits are based on the Wasteload Allocation and STREAM modeled, which accounts for oxygen depletion in the receiving stream. The toxicity limit for NH3-N was determined. For NH3-N the more stringent of the modeled limit and the toxicity limit is what is given in the Wasteload Allocation, to meet Water Quality Based Effluent Limitations (WQBELs).

Upon permit issuance the Permittee shall operate under the Effluent Limitations and Monitoring Requirements for Outfall 001. Effluent Limitations and Monitoring Requirements for Outfalls 002, 101, and 201 shall not apply. Upon completion and operation of the infrastructure to connect Meridian POTW, East Meridian POTW, and Mississippi Power Company's Kemper County Facility the Permittee shall operate under the Effluent Limitations and Monitoring Requirements for Outfalls 002, 101, and 201. Effluent Limitations and Monitoring Requirements for Outfall 001 shall not apply.

MERIDIAN POTW

The permitting action being brought before the Permit Board today is the proposed modification of NPDES Permit Ref. No. MS0020117, for Meridian POTW. This facility is also known as South Meridian POTW. The facility is located on Highway 11, Meridian, MS in Lauderdale County. The NPDES Permit Ref. No. MS0020117 allows for the discharge of treated municipal wastewater effluent from South Meridian POTW, and ultimately East Meridian POTW, into Sowashee Creek.

The proposed draft NPDES permit modification contains numerous regulatory limitations and constraints. The purpose of the modification was to correct permit limitation errors, remove redundancy in permit limitations, and to clarify that the frequency of monitoring for all permitted parameters is only required when the treated effluent is discharged into Sowashee Creek.

As part of the permitting process, a Public Notice of the proposed permit action was issued on June 27, 2013, and lasted until July 2, 2013. During the notice period the Department did receive public comments. The public comments were thoroughly examined by Department Staff. The Permit Board has received a copy of the public comments, staff's responses to comments, and a copy of the draft permit and rationale.

Interested parties were notified of this Permit Board meeting and I believe we have visitors. Staff has a recommendation but would like to yield to the Permit Board at this time.

Recommendation: Staff believes the environmental permit has been developed with the proper constraints, limits and requirements such that the facility could operate within all state and federal environmental laws and regulations. Staff recommends issuance of the permit as drafted.

Fw: East Meridian
TerryCook
to:
Bradley_Crain
11/05/2013 09:31 AM
Hide Details
From: TerryCook@meridianms.org
To: Bradley_Crain@deq.state.ms.us.

Bradley

I have been discussing everything with MP and as soon as the samplers are moved The City is going to push (demand) for reverse flow and stop all discharge to Sowasnee from East Meridian. As you can see from the previous emails there is somewhat of a plan in place. If you have any questions please call me or email me. Sorry for the slow response

Terry W. Cook, Jr.
Chief Utility Plant Operator, Wastewater
Cell: 601.616.3328
Bus: 601.485.1815
Post Office Box 1430
2304 Highway 11 South
Meridian, MS 39302-1430
terrycook@meridianms.org
www.meridianms.org

--- Forwarded by Terry Cook/CDM on 11/05/2013 09:25 AM ---

From: McFarland, Jay <JDMcFarl@southernco.com>
To: TerryCook@meridianms.org <TerryCook@meridianms.org>
Date: 11/05/2013 09:16 AM
Subject: Re: East Meridian

I'm in Birmingham so I haven't gotten an update on how testing went yesterday and what activities are planned today. I did pass on your preference to the team to go ahead and move the automatic sampler at the main plant. That work, and moving the sampler at the east plant, should all be completed by the 11th/12th when the permit is modified. After that, we should be able to support whichever decision you make as to where to discharge.

I'd like to get down and talk with you and Hugh tomorrow or Thursday to make sure all of the issues are addressed and to make sure there isn't anything left hanging. Can the two of you be available?

- Jay

On Nov 5, 2013, at 7:32 AM, "TerryCook@meridianms.org" <<mailto:TerryCook@meridianms.org>> wrote:

Jay,

What did you decide. Coming from Hugh he says "As I stated in our previous conversation, we are going to reverse flow until they take water from the East Plant." So as you can see this is what the city wants. Did you talk to Bradley Crane?

Terry W. Cook, Jr.
Chief Utility Plant Operator, Wastewater
Cell: 601.616.3328
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Post Office Box 1430
2304 Highway 11 South
Meridian, MS 39302-1430
terrycook@meridianms.org <<mailto:terrycook@meridianms.org>>
www.meridianms.org

From: "McFarland, Jay" <JDMcFarl@southernco.com> <<mailto:JDMcFarl@southernco.com>>
To: "TerryCook@meridianms.org" <<mailto:TerryCook@meridianms.org>> <<mailto:TerryCook@meridianms.org>>
Date: 11/04/2013 10:10 AM
Subject: Re: East Meridian

I'm tied up a good bit this morning but will try to call right after 11? Is that alright?

On Nov 4, 2013, at 9:31 AM, "TerryCook@meridianms.org" <<mailto:TerryCook@meridianms.org>> <<mailto:TerryCook@meridianms.org>> wrote:

Jay can you give me a call at 601-485-1815?

Terry W. Cook, Jr.
Chief Utility Plant Operator, Wastewater
Cell: 601.616.3328
Bus: 601.485.1815
Post Office Box 1430
2304 Highway 11 South
Meridian, MS 39302-1430
terrycook@meridianms.org <<mailto:terrycook@meridianms.org>> <<mailto:terrycook@meridianms.org>>
www.meridianms.org

From: "McFarland, Jay" <JDMcFarl@southernco.com> <<mailto:JDMcFarl@southernco.com>> <<mailto:JDMcFarl@southernco.com>>
To: "TerryCook@meridianms.org" <<mailto:TerryCook@meridianms.org>> <<mailto:TerryCook@meridianms.org>>
<TerryCook@meridianms.org> <<mailto:TerryCook@meridianms.org>> <<mailto:TerryCook@meridianms.org>>

To: "Nunez, Anna M." <AMSimpso@southernco.com><mailto:AMSimpso@southernco.com><mailto:AMSimpso@southernco.com>>, "Hugh Smith Jr." <hughsmith@MeridianMS.org><mailto:hughsmith@MeridianMS.org><mailto:hughsmith@MeridianMS.org>>
Date: 11/04/2013 09:26 AM
Subject: RE: East Meridian

That's right - but remember that the permit "as it stands today" requires you to meet fecal limits "at the East Plant internal outfall 201. That was the main change that we got in this permit mod was to drop those requirements. Your sampling type and frequency at 201 also changed.

So for this week up until the 11th when they approve the permit mod, I think the choice is 1) discharge at Sowahsee and fight BOD or 2) reverse flow and watch fecal counts at the east plant - which I think you generally meet without treatment - and modify your sampling program for the week.

Also I think you probably want to keep the automatic sampler at the far manhole at the main plant like it currently is because we intend to reverse flow for a while. At some point next year when we start taking water again, we can move it back for your 101 outfall monitoring. Main PWTW performance and put the manual sample pump down at 302 as originally designed since it will be less likely that you're discharging to the creek. We can discuss that more.

Does all of that sound right? Anna, Steve and the team are testing reverse flow today to make sure everything chlorination/dechlorination systems functions in automatic like it should. If no issues, we can be ready to support you however you need to operate.

On Nov 4, 2013, at 7:33 AM,

"TerryCook@meridianms.org" <mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org>>
"TerryCook@meridianms.org" <mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org>> wrote:

Jay correct me if I am wrong, but the reason for hooking up the #4 cell 012 line over to the pipe was to help during reverse flow. This will help with the fecals and the sampling can be corrected by moving the samplers. Hugh is out of town this week.

Terry W. Cook, Jr.
Chief Utility Plant Operator, Wastewater
Cell: 601.616.3328
Bus: 601.488.1313

Post Office Box 1430
1304 Highway 11 South
Meridian, MS 39302-1431
terrycook@meridianms.org<mailto:terrycook@meridianms.org><mailto:terrycook@meridianms.org><mailto:terrycook@meridianms.org>>
www.meridianms.org

From: "McFarland, Jay"

<JMcFar@southernco.com><mailto:JMcFar@southernco.com><mailto:JMcFar@southernco.com>>

To: "TerryCook@meridianms.org" <mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org>>
"TerryCook@meridianms.org" <mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org>>

Re: "Nunez, Anna M." <AMSimpso@southernco.com><mailto:AMSimpso@southernco.com><mailto:AMSimpso@southernco.com>>, "Hugh Smith Jr." <hughsmith@MeridianMS.org><mailto:hughsmith@MeridianMS.org><mailto:hughsmith@MeridianMS.org>>

Date: 11/01/2013 10:41 PM
Subject: RE: East Meridian

Thanks Terry - we are still having some internal conversations to determine how all of this will work out can you confirm one more thing for me?

You are having trouble remaining in compliance with your existing East plant permit because of the reduced Phase II BOD limits. BUT - while we're still waiting on the "Combined Permit" modification to be approved (expected on the 12th), if we start reverse flowing and implement the Combined Permit in it's "current" form, then you would have trouble meeting fecal and sampling requirements in it. Why we need the modification in the first place. So until the permit modification is approved, you're in a bind whichever way you go? It's worth noting, if I understand correctly, that the current Main plant permit also cannot accept the reverse flow from the East plant which is why you'd have to rely on and implement the Combined Permit in its current form.

I'm also assuming that since we've been working with and pressing MDEQ for this modification for over a year (originally anticipated to be completed in the June '13 timeframe by coincidence), it would be difficult for them to hold an enforcement action over you since they haven't given you the revised permit in a timely manner?

We are working to finalize reverse flow testing and making sure that all of the new controls work as anticipated. I believe Anna has this scheduled for the first part of the week.

I'd like to talk to you and Hugh at some point after that, discuss those results, the issues I mentioned above and a timeline since MDEQ finalizes the permit modification to make sure we're all on the same page. Are the two of you generally available next week?

Thanks
Jay

From: TerryCook@meridianms.org<mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org>>
<mailto:TerryCook@meridianms.org>

Sent: Friday, November 01, 2013 2:41 PM

To: McFarland, Jay

Re: Nunez, Anna M.

Hugh Smith@MeridianMS.org<mailto:Hugh Smith@MeridianMS.org><mailto:Hugh Smith@MeridianMS.org><mailto:Hugh Smith@MeridianMS.org>>
Subject: RE: East Meridian

Jay,

On 11/04/2013

The permittee shall achieve compliance with the effluent limitations specified for discharge in accordance with the following schedule:
Upon issuance of this permit, the permittee shall achieve compliance with the effluent limitations specified for the parameters noted as Phase I; Phase II limitations

shall not apply at this time. Beginning upon completion and start-up of improvements needed to comply with Phase II limitations, but no later than three (3) years

after the effective date of the permit, the permittee shall achieve compliance with the effluent limitations specified for the parameters noted as Phase II; Phase I

limitations shall not apply at this time. The permittee shall notify our office orally at least 24 hours prior to start-up and in

0000	00	00000000	10000000	00000000	00000000	00000000	00000000
------	----	----------	----------	----------	----------	----------	----------

Terry W. Cook, Jr.
Chief Utility Plant Operator Wastewater
Tel: 601.465.3923
Bus: 601.465.1913
Post Office Box 1431
2304 Highway 11 South
Meridian, MS 39302-1431
terrycook@meridiannms.org <<mailto:terrycook@meridiannms.org>> <<mailto:terrycook@meridiannms.org>> <<mailto:terrycook@meridiannms.org>>
www.meridiannms.org

Also - we've been having a lot of discussions trying to understand and evaluate all of the different risk exposure and options - especially with regard to extended Reverse flow operation. We're having trouble relying on this option for 6-9 months when the design consideration was more emergency/short-term usage only as a last resort.

Can you help us with understanding the "Phase II" requirement, how the City would have complied had Kemper not been an option or what other options might be available to continue discharging to the river while simultaneously meeting the requirement?

[illegible]

The BOD monthly average from June has been between 2.4-4.3 on the weekly, MOA it is 3.6-4.3. It is not just the one it is both. If you must on either or both that is a violation. Going into the winter months the BOD goes higher. In the past two years it has gotten up to 10.6 Weekly and 3.2 Monthly. If we continue with this permit we will go out of compliance. If MP starts using the water or reverse flow the permit is no longer valid.

Jerry W. Cook, Jr.
Chief Utility Plant Operator, Wastewater
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[illegible]

<mailto:AMSinfo@southernco.com><mailto:AMSinfo@southernco.com><mailto:AMSinfo@southernco.com><mailto:AMSinfo@southernco.com><mailto:AMSinfo@southernco.com>

I spoke with Jay McFarland. As he discussed with you yesterday afternoon, he is working with the MPC Environmental group today on this issue. He will respond to you later today with more information.

Anna Wilson, F.B.I. - Kanpur County 1900 - Pipeline Project Map - Southern Company Corporation - 2004-2013-2014-2015 - 2016

1:15:5616

From: TerryCook@meridianms.org<<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>>
[mailto:TerryCook@meridianms.org]
Sent: Friday, November 01, 2013 8:36 AM
To: Nunez, Anna M.
Cc: Hugh_Smith@CM@MeridianMS.org<mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org>
McFarland, Jay; Burrell, Marvin D.; Litchfield, Michael; McVay, Morgan; Crabtree, Steven
Subject: RE: East Meridian

Anna,

This date was given to MDEQ during all the talks about the Main POTW permit rewrite back in April. If we continue to discharge then we will automatically fall into Phase II. The Effluent BOD in phase I is 10 Monthly Average and 15 Maximum Weekly Average. Under Phase II it is 1 Monthly Average and 3 Maximum Weekly Average. MDEQ and the City wants the discharge from East Meridian to Sowshee to Stop. Can any one give me a reason why the reverse flow could not be put into use. If this was implemented the sampler could be relocated and the pumps removed. This by the time table discussed months back was already supposed to have been done.

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From:

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To:

"TerryCook@meridianms.org"<<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>>
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Cc:

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"Burrell, Marvin D."
<MDBurrell@southernco.com><<mailto:MDBurrell@southernco.com>><<mailto:MDBurrell@southernco.com>><<mailto:MDBurrell@southernco.com>><<mailto:MDBurrell@southernco.com>>

Date:

11/01/2013 04:36 PM

Subject:

RE: East Meridian

Thank you Terry. We are reviewing the East Plant Permit now and see the reference to Phase II.

Do you recall when and where the October 2013 date was communicated to MDEQ? Would MDEQ be willing to extend that grace period out to a future date? Which of the parameters at the East Plant are out of compliance?

Anna

Anna Nunez, P.E. Kemper County ISCO - Pipeline Project Mgr Southern Company Generation Office 201.992.1516 Cell 201.416.1077 LNW 1:15:5616

From: TerryCook@meridianms.org<<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>><<mailto:TerryCook@meridianms.org>>
[mailto:TerryCook@meridianms.org]
Sent: Thursday, October 31, 2013 3:35 PM
To: Nunez, Anna M.
Cc: Hugh_Smith@CM@MeridianMS.org<mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org><mailto:Hugh_Smith@CM@MeridianMS.org>
McFarland, Jay; McVay, Morgan
Subject: RE: East Meridian

Anna,

The reason for MDEQ getting involved is that the City and M.P. told them back in April that the East Plant would not be discharging to Sowshee past the first of October 2013. They were okay with that, because that would end the East Meridian POTW permit. Under that permit in Phase II that should have started back in June the Effluent BOD is 2.0 mg/L Max Weekly. The East plant is/will be out of compliance under this new rule. The only way not to put the city in a position of being out of compliance is to discharge East Meridian to Kemper or with the Main POTW to Sowshee.

Plus in doing this we need to set up the sampling stations.

http://www.paradiams.org/Xna/00000798003mar_diams.org/Xna/00000798003mar_diams.org/Xna/00000798003mar_diams.org/Xna/00000798003mar_diams.org

'Nunez, Anna M.'

100

201

2470:

Subject:

RE: East Mexican

100% 98% 96% 94% 92% 90% 88% 86% 84% 82% 80% 78% 76% 74% 72% 70% 68% 66% 64% 62% 60% 58% 56% 54% 52% 50%

THE UNIVERSITY OF CHICAGO LIBRARY

10.2042.

4.2.2

From: TerryCook@meridianms.org<mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org><mailto:TerryCook@meridianms.org>
mailto:TerryCook@meridianms.org

Sent: Thursday, October 31, 2013 2:06 PM

For: Nunez, Anne M.; McFarland, Jay; McVay, Morgan.

156

Subject: CCM3Me:11JanMS_013<mailto:11JanMS_013@ccm3me.kit.edu><mailto:11JanMS_013@ccm3me.kit.edu><mailto:11JanMS_013@ccm3me.kit.edu>

553.

What is the status of removing the pumps at East Meridian? I need an exact time line on this for MOED purposes. Can we go ahead and change the discharge to gravity from the basin at East Meridian to the main pump station and letting it discharge with the Main POTW or to Spawessee?

```

maxTime:=0;
for i:=1 to n do
    maxTime:=max(maxTime,time[i]);
end for

```

ENTERED BY 

PERMIT BOARD REPORT

MAR 11 2014

Permit Action Form
Meridian POTW
311 27th Avenue
Lauderdale County
Meridian, MS 39301

Branch Manager: Bradley Crain
SIC: 4952

Recommendations

Folder No. – Activity Type

PER20140001 - MA-Water-NPDES-ADMIN

Permit No.

MS0020117

DEQ Contact

Christopher Messemore

Action:

- ☐ Issue
☒ Modification
☐ Transfer
☐ Revoke

- ☐ Reissue
☐ Name Change
☐ Deny

By:

- ☒ Division Chief
☐ Permit Board
☐ Terminate

Programs:

Master File

Program	Sub Program	Start Date	End Date	Delete
Water	NPDES Major Municipal	03/14/1995		<input type="checkbox"/>

Marked subprograms should be deleted from the master file by the Master File Administrator

Permit Application

Program	Sub Program	Start Date	End Date
Water	NPDES Major Municipal	03/14/1995	

Air Use Only:

- ☐ Emissions data entered in enSite
☐ Emissions data prepared using Lotus 1-2-3 (Attached)
☐ Permitting action did not change emissions inventory.
☐ AFS form completed.

TMDL Use Only:

'Y' indicates conformance with published TMDLs, 'N' indicates non-conformance.

Published TMDL	FLAG
----------------	------

Basis: State of Mississippi Regulations, Admin Mod

Coordination

Comments: This modification is a correction to the expiration date of the permit.



Administrative Tasks

Task	Scheduled Date	Completed Date
Receive Name Change / Transfer Request		
Issue Permit		
Permit Expiration Date		
Send Name Change / Transfer Approval Letter		

Existing Permits

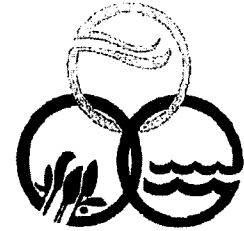
Permit Number	Description
Water - NPDES	MS0020117

Requirement Profiles:

Category	ID	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
AI	13261	Permit Shell	Individual Permit	Water	NPDES	Municipal Facility			



State of Mississippi



WATER POLLUTION CONTROL PERMIT

Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

THIS CERTIFIES

Meridian POTW
311 27th Avenue
Meridian, MS
Lauderdale County

has been granted permission to discharge wastewater in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act.

Mississippi Environmental Quality Permit Board

Mississippi Department of Environmental Quality

Issued/Modified: NOV 12 2013

Expires: MAY 31 2015

Permit No. MS0020117

Agency Interest # 13261

State of Mississippi

FILE COPY

WATER POLLUTION CONTROL PERMIT

Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

THIS CERTIFIES

Meridian POTW
311 27th Avenue
Meridian, MS
Lauderdale County

has been granted permission to discharge wastewater in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act.

Mississippi Environmental Quality Permit Board

Mississippi Department of Environmental Quality

Issued/Modified: NOV 14 2013

Expires: OCT 31 2018

Permit No. MS0020117

Agency Interest # 13261

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Other Relevant Documents:	
Cover Letter, Lab Data, Form 2A	

Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

Meridian POTW

Subject Item Inventory

Permit Number:MS0020117

Activity ID No.: PER20120003

Subject Item Inventory:

ID	Designation	Description
AI13261	MS0020117	Municipality
RPNT1	MS0020117-001	Outfall 001 (Domestic / Municipal Wastewater Effluent)
RPNT2	MS0020117-101	Outfall 101 (Internal Outfall from Meridian POTW)
.PNT3	MS0020117-201	Outfall 201 (Internal Outfall from East Meridian POTW)
RPNT4	MS0020117-002	Outfall 002 (Combined Domestic / Municipal Wastewater Effluent from Outfall 101 and 201)

Receiving Stream Relationships:

Subject Item	Relationship	Receiving Stream
RPNT1 Outfall 001 (Domestic / Municipal Wastewater Effluent)	Discharges Into	Sowashee Creek
RPNT4 Outfall 002 (Combined Domestic / Municipal Wastewater Effluent from Outfall 101 and 201)	Discharges Into	Sowashee Creek

KEY

ACT = Activity

AREA = Area

CT = Control Device

IA = Insignificant Activity

PCS = PCS

TRMT = Treatment

AI = Agency Interest

CAFO = Concentrated Animal Feeding Operation

EQPT = Equipment

MAFO = Animal Feeding Operation

RPNT = Release Point

WDPT = Withdrawal Point

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: **Outfall 001 (Domestic / Municipal Wastewater Effluent)**

RPNT0000000001: MS0020117-001

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	217 Monthly Average	325 Maximum Weekly Average	pounds per day	*****	2 Monthly Average	3 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Dec-Apr
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	108 Monthly Average	163 Maximum Weekly Average	pounds per day	*****	1 Monthly Average	1.5 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	May-Nov
<i>Ammonia Nitrogen, Total (as N) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Chlorine, total residual Effluent</i>	*****	*****	*****	*****	0.011 Monthly Average	0.019 Maximum Weekly Average	mg/l.	Daily	Grab Sampling	Jan-Dec
<i>Copper (Total Recoverable) Effluent</i>	*****	*****	*****	*****	0.0051 Monthly Average	0.0072 Maximum Weekly Average	mg/l.	Monthly	Grab Sampling	Jan-Dec
<i>Cyanide (Free-Amen. to Chlorination) Effluent</i>	*****	*****	*****	*****	0.0053 Monthly Average	0.0226 Maximum Weekly Average	mg/L	Monthly	Grab Sampling	Jan-Dec
<i>Fecal coliform, general Effluent</i>	*****	*****	*****	*****	200 Monthly Average	400 Maximum Weekly Average	# of colonies/100 ml	Daily	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	13 Monthly Average	Report Maximum Weekly Average	Million Gallons per Day	*****	*****	*****	*****	Daily	Continuous Recorder	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 001 (Domestic / Municipal Wastewater Effluent)

RPNT0000000001: MS0020117-001

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Nitrogen (Total) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Monthly	24-hr Composite	Jan-Dec
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	1084 Monthly Average	1627 Maximum Weekly Average	pounds per day	*****	10 Monthly Average	15 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Dec-Apr
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	759 Monthly Average	1138 Maximum Weekly Average	pounds per day	*****	7 Monthly Average	10.5 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	May-Nov
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Percent Removal</i>	*****	*****	*****	85 Minimum	*****	*****	mg/l.	Monthly	Calculations	Jan-Dec
<i>Oxygen, dissolved Effluent</i>	*****	*****	*****	6.0 Minimum	*****	*****	mg/l.	Daily	Grab Sampling	Jan-Dec
<i>Oxygen, dissolved In Aeration Unit</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	mg/L	Daily	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Daily	Grab Sampling	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 001 (Domestic / Municipal Wastewater Effluent)

RPNT0000000001: MS0020117-001

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Phosphorus (Total) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Monthly	24-hr Composite	Jan-Dec
<i>Sludge Settleability 30 Minute In Aeration Unit</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	ml/l.	Daily	Measurement	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	3253 Monthly Average	4879 Maximum Weekly Average	pounds per day	*****	30 Monthly Average	45 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Solids (Total Suspended) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Solids (Total Suspended) Percent Removal</i>	*****	*****	*****	85 Minimum	*****	*****	mg/l.	Monthly	Calculations	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 101 (Internal Outfall from Meridian POTW)

RPNT0000000002: MS0020117-101

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	2 Monthly Average	3 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Dec-Apr
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	1 Monthly Average	1.5 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	May-Nov
<i>Ammonia Nitrogen, Total (as N) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Chlorine, total residual Effluent</i>	*****	*****	*****	0.3 Minimum	*****	*****	mg/l.	Daily	Grab Sampling	Jan-Dec
<i>Copper (Total Recoverable) Effluent</i>	*****	*****	*****	*****	0.0051 Monthly Average	0.0072 Maximum Weekly Average	mg/l.	Monthly	24-hr Composite	Jan-Dec
<i>Cyanide (Free-Amen. to Chlorination) Effluent</i>	*****	*****	*****	*****	0.0053 Monthly Average	0.0226 Maximum Weekly Average	mg/l.	Monthly	24-hr Composite	Jan-Dec
<i>Flow Effluent</i>	13 Monthly Average	Report Maximum Weekly Average	Million Gallons per Day	*****	*****	*****	*****	Daily	Continuous Recorder	Jan-Dec
<i>Nitrogen (Total) Effluent</i>	*****	*****	*****	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Monthly	24-hr Composite	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: **Outfall 101 (Internal Outfall from Meridian POTW)**

RPNT0000000002: MS0020117-101

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	10 Monthly Average	15 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Dec-Apr
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	7 Monthly Average	10.5 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	May-Nov
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Percent Removal</i>	*****	*****	*****	85 Minimum	*****	*****	%	Monthly	Calculations	Jan-Dec
<i>Oxygen, dissolved In Aeration Unit</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	mg/l.	Daily	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	SU	Daily	Grab Sampling	Jan-Dec
<i>Phosphorus (Total) Effluent</i>	*****	*****	*****	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Monthly	24-hr Composite	Jan-Dec
<i>Sludge Settleability 30 Minute In Aeration Unit</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	ml/l.	Daily	Measurement	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 101 (Internal Outfall from Meridian POTW)

RPNT0000000002: MS0020117-101

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Solids (Total Suspended) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	30 Monthly Average	45 Maximum Weekly Average	mg/l.	Daily	24-hr Composite	Jan-Dec
<i>Solids (Total Suspended) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/L	Daily	24-hr Composite	Jan-Dec
<i>Solids (Total Suspended) Percent Removal</i>	*****	*****	*****	85 Minimum	*****	*****	%	Monthly	Calculations	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 201 (Internal Outfall from East Meridian POTW)

RPNT0000000003: MS0020117-201

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	2 Monthly Average	3 Maximum Weekly Average	mg/l.	Daily	8-hr Composite	Dec-Apr
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	1 Monthly Average	1.5 Maximum Weekly Average	mg/l.	Daily	8-hr Composite	May-Nov
<i>Ammonia Nitrogen, Total (as N) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	8-hr Composite	Jan-Dec
<i>Flow Effluent</i>	1.0 Monthly Average	Report Maximum Weekly Average	Million Gallons per Day	*****	*****	*****	*****	Daily	Calculations	Jan-Dec
<i>Nitrogen (Total) Effluent</i>	*****	*****	*****	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Monthly	8-hr Composite	Jan-Dec
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	10 Monthly Average	15 Maximum Weekly Average	mg/l.	Daily	8-hr Composite	Dec-Apr
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	7 Monthly Average	10.5 Maximum Weekly Average	mg/l.	Daily	8-hr Composite	May-Nov
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	8-hr Composite	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: **Outfall 201 (Internal Outfall from East Meridian POTW)**

RPNT0000000003: MS0020117-201

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Percent Removal</i>	*****	*****	*****	85 Minimum	*****	*****	%	Monthly	Calculations	Jan-Dec
<i>Oxygen, dissolved In Aeration Unit</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	mg/l.	Daily	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	SU	Daily	Grab Sampling	Jan-Dec
<i>Phosphorus (Total) Effluent</i>	*****	*****	*****	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Monthly	8-hr Composite	Jan-Dec
<i>Sludge Settleability 30 Minute In Aeration Unit</i>	*****	*****	*****	Report Minimum	*****	Report Maximum	ml/l.	Daily	Measurement	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	30 Monthly Average	45 Maximum Weekly Average	mg/l.	Daily	8-hr Composite	Jan-Dec
<i>Solids (Total Suspended) Influent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	Report Monthly Average	Report Maximum Weekly Average	mg/l.	Daily	8-hr Composite	Jan-Dec
<i>Solids (Total Suspended) Percent Removal</i>	*****	*****	*****	85 Minimum	*****	*****	%	Monthly	Calculations	Jan-Dec

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 002 (Combined Domestic / Municipal Wastewater Effluent from Outfall 101 and 201)

RPNT0000000004: MS0020117-002

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	217 Monthly Average	325 Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Daily	Calculations	Dec-Apr
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	108 Monthly Average	163 Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Daily	Calculations	May-Nov
<i>Chlorine, total residual Effluent</i>	*****	*****	*****	*****	0.011 Monthly Average	0.019 Maximum Weekly Average	mg/L	Daily	Grab Sampling	Jan-Dec
<i>Fecal coliform, general Effluent</i>	*****	*****	*****	*****	200 Monthly Average	400 Maximum Weekly Average	# of colonies/100 ml	Daily	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	13 Monthly Average	Report Maximum Weekly Average	Million Gallons per Day	*****	*****	*****	*****	Daily	Continuous Recorder	Jan-Dec
<i>Nitrogen (Total) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Monthly	Calculations	Jan-Dec
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	1084 Monthly Average	1627 Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Daily	Calculations	Dec-Apr
<i>Oxygen Demand, carbonaceous biochemical, 5-day (20 degrees C) Effluent</i>	759 Monthly Average	1138 Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Daily	Calculations	May-Nov

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: **Outfall 002 (Combined Domestic / Municipal Wastewater Effluent from Outfall 101 and 201)**

RPNT0000000004: MS0020117-002

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Oxygen, dissolved Effluent</i>	*****	*****	*****	6.0 Minimum	*****	*****	mg/l.	Daily	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Daily	Grab Sampling	Jan-Dec
<i>Phosphorus (Total) Effluent</i>	Report Monthly Average	Report Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Monthly	Calculations	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	3253 Monthly Average	4879 Maximum Weekly Average	pounds per day	*****	*****	*****	*****	Daily	Calculations	Jan-Dec

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AI0000013261 (MS0020117) Municipality:

Limitation Requirements:

Condition	Parameter	Condition
L-1		There shall be no discharge of floating solids or visible foam in other than trace amounts. [11 Miss. Admin. Code Pt. 6, R. 2.2.A(2).]
L-2		The effluent shall not cause an accumulation of solids or sewage sludges in the receiving stream. [11 Miss. Admin. Code Pt. 6, R. 2.2.A(2).]
L-3		The discharges shall not cause the occurrence of a visible sheen on the surface of the receiving waters. [11 Miss. Admin. Code Pt. 6, R. 2.2.A(2).]
L-4		<p>Samples taken in compliance with the monitoring requirements specified in this permit shall be taken:</p> <p>For Outfall 001 samples shall be taken at the nearest accessible point after final treatment by Meridian POTW but prior to mixing with the receiving stream.</p> <p>For Outfall 002 samples shall be taken at the nearest accessible point after final treatment of the combined effluents from 101 and 201 but prior to mixing with the receiving stream.</p> <p>For Outfall 101 samples shall be taken at the nearest accessible point after final treatment by Meridian POTW but prior to mixing with the receiving stream.</p> <p>For Outfall 201 samples shall be taken at the nearest accessible point after final treatment by East Meridian POTW but prior to mixing with the effluent from Outfall 101.</p> <p>[WPC-1 Chapter One Section IV.A(28)]</p>

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Limitation Requirements:

Condition	Parameter	Condition
L-5		Monitoring for Free Cyanide and Total Recoverable Copper must be performed by a method listed in 40 CFR 136 and with the Minimum Quantitation Level (MQL) listed below. If the most stringent EPA approved method has a MQL that is not the same as or more stringent than the given MQL, then the most stringent EPA approved method must be used.
	Parameter	MQL (parts per billion)
	Free Cyanide	5.2
	Total Recoverable Copper	5
	[WPC-1 Chapter One]	
L-6		The combined effluent discharge from Outfall 101 and Outfall 201 shall not total over 13 million gallons per day (Monthly Average). [40 CFR]
L-7		All discharges to waters of the State allowed by NPDES Permit MS0055735 (East Meridian POTW) shall cease, and permit MS0055735 revoked, upon the completion and operation of the infrastructure to allow for the transfer of the treated effluent to Mississippi Power Company's Kemper County Facility or alternately to Meridian POTW (MS0020117). [40 CFR]
		The discharge of wastewater by the equalization basin into Outfall 001 or Outfall 101 will be considered a bypass of the wastewater treatment system, and is subject to the conditions of bypassing as addressed in Permit Conditions T-30 through T-34. [40 CFR]

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Record-Keeping Requirements:

Condition	Condition
R-1	<p data-bbox="203 563 426 588">Recording of Results</p> <p data-bbox="203 621 1858 678">For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall maintain records of all information obtained from such monitoring including:</p> <ul data-bbox="203 712 1129 870" style="list-style-type: none"><li data-bbox="203 712 701 736">(1) The exact place, date, and time of sampling;<li data-bbox="203 740 653 764">(2) The dates the analyses were performed;<li data-bbox="203 768 690 792">(3) The person(s) who performed the analyses;<li data-bbox="203 796 865 821">(4) The analytical techniques, procedures or methods used; and<li data-bbox="203 824 1129 870">(5) The results of all required analyses. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(29)(a).]

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Submittal/Action Requirements:

Condition

Condition

S-1 Sludge Management Requirements.

- (1) General Compliance: The permittee shall comply with all existing Federal and State laws and regulations that apply to its sewage sludge use and disposal practice(s), with the Mississippi Nonhazardous Waste Management Regulations and with the CWA Section 405(d) technical standards when promulgated.
- (2) Reopener: If an applicable "acceptable management practice" or numerical limitation for pollutants in sewage sludge promulgated under Section 405(d)(2) of the Clean Water Act, as amended by the Water Quality Act of 1987, is more stringent than the sludge pollutant limit or acceptable management practice in this permit, or controls a pollutant to conform to the requirements promulgated under Section 405(d)(2). The permittee shall comply with the limitations by no later than the compliance deadline specified in the applicable regulations as required by Section 405(d)(2)(D) of the Clean Water Act.
- (3) Notice of Change in Sludge Disposal Practice: The permittee shall give prior notice to the Director of any change(s) planned in the permittee's sludge use or disposal practice.
- (4) Cause for Modification: 40 CFR 122.62(a)(1) provides that the following is a cause for modification but not revocation and reissuance of permits except when the permittee requests or agrees.
- (5) Alterations: There are material and substantial changes or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit. [11 Miss. Admin. Code Pt. 6, Ch. 1, Subch. 1.]

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Condition

S-2

Pretreatment Requirements.

- (1) This permit shall be modified, or alternately revoked and reissued by a date to be determined to incorporate and approved municipal pretreatment program as required under Section 402(b)(8) of the Federal Water Pollution Control Act and implementing regulations or by the requirements of the approved State pretreatment program, as appropriate.
- (2) Effluent limitations from this discharge are listed in the Effluent Limitations section of this permit. If it becomes apparent that other pollutants attributable to inputs from major contributing industries using the municipal system are also present in the permittee's discharge, this permit may be revised to specify effluent limitations for any or all of such other pollutants in accordance with best practicable technology or water quality standards.
- (3) Under no circumstances shall the permittee allow introduction of the following wastes or pollutants into the waste treatment system.
- (a) Pollutants which create a fire or explosion hazard in the treatment works;
- (b) Pollutants which will cause corrosive structural damage to treatment works; but in no case discharges with a pH designed lower than 5.0, unless the works are specifically designed to accomodate such discharges;
- (c) Solids or viscous substances in amounts which cause obstructions to the flow in sewer or interference with the proper operation of the treatment works;
- (d) Wastewaters at a flow rate and/or pollutant discharge rate which is excessive over relatively short time periods so as to cause a loss of treatment efficiency;
- (e) Heat in amounts which will inhibit biological activity in the treatment works resulting in interference, but in no case heat in such quantities that the temperature of the influent exceeds 40 degrees Celsius (104 degrees Fahrenheit), unless approval for alternate limits has been granted by the Permit Board. [11 Miss. Admin. Code Pt. 6, Ch. 1, Subch. 1.]

S-3

Reporting

Monitoring results obtained during the previous reporting period shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1) POSTMARKED NO LATER THAN THE 28TH DAY OF THE MONTH FOLLOWING THE COMPLETED REPORTING PERIOD. Copies of these, and all other reports required herein, shall be signed in accordance with 11 Miss. Admin. Code Pt. 6, R. 1.1.2.E and R. 1.1.2.E. of the Mississippi Wastewater Permit Regulations, and shall be submitted to the Mississippi Environmental Quality Permit Board at the following address:

Mississippi Department of Environmental Quality
Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225. [11 Miss. Admin. Code Pt. 6, R. 1.1.2.E and R. 1.1.2.E.]

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Submittal/Action Requirements:

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Condition

S-4 Noncompliance Notification - Twenty-Four Hour Reporting

(1) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and/or prevent recurrence of the noncompliance.

(2) The following shall be included as information which must be reported within 24 hours under this paragraph.

(i) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(ii) Any upset which exceeds any effluent limitation in the permit.

(iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.

(iv) The Executive Director may waive the written report on a case-by-case basis for reports under paragraph (1) of this section if the oral report has been received within 24 hours. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(29)(e).]

S-5 Noncompliance Notification - Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the twenty-four hour reporting requirements, at the time monitoring reports are submitted or within 30 days from the end of the month in which the noncompliance occurs. The reports shall contain the same information as is required under the twenty-four hour reporting requirements contained in this permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(29)(f).]

S-6 Noncompliance Notification - Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Permit Board, it shall promptly submit such facts or information. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(29)(g).]

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S-7

Expiration of Permit

At least 180 days prior to the expiration date of this permit pursuant to the State law and regulation, the permittee who wishes to continue to operate under this permit shall submit an application to the Permit Board for reissuance. The Permit Board may grant permission to submit an application later than this, but no later than the expiration date of the permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.5.B(1).]

Narrative Requirements:

Definitions:

Condition

No.

Condition

T-1

Definitions: General

The permittee shall refer to 11 Miss. Admin. Code Pt. 6, R. 1.1.1.A for definitions of any permit term not specified in this permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A]

T-2

Definitions: Monthly Average

"Monthly Average" means the average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month. The monthly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the calendar month. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(44).]

T-3

Definitions: Daily Discharge

"Daily discharge" means the "discharge of a pollutant" measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily average" is calculated as the average measurement of the discharge of the pollutant over the day. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(15).]

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Narrative Requirements:

Definitions:

Condition	Condition
T-4	<p>Definitions: Daily Maximum</p> <p>"Daily maximum" means the highest "daily discharge" over a calendar month. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(16).]</p>
T-5	<p>Definitions: Maximum Weekly Average</p> <p>Maximum Weekly Average means the highest "weekly average" over a monitoring period. [40 CFR 122]</p>
T-6	<p>Definitions: Toxic Pollutants</p> <p>"Toxic pollutants" means any pollutant listed as toxic under Section 307(a)(1) or, in the case of "sludge use or disposal practices", any pollutant identified in regulations implementing Section 405(d) of the Clean Water Act. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(71).]</p>
T-7	<p>Definitions: Hazardous Substances</p> <p>"Hazardous substances" are defined in 40 CFR 116.4. [40 CFR 116.4]</p>
T-8	<p>Definitions: Weekly Average</p> <p>"Weekly average" means the average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week. The weekly average for fecal coliform bacteria is the geometric mean of all "daily discharges" measured in a calendar week. In computing the geometric mean for fecal coliform bacteria, one (1) shall be substituted for sample results of zero. For self-monitoring purposes, the value to be reported is the single highest weekly average computed during a calendar month. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(86).]</p>
T-9	<p>Definitions: Quarterly Average</p> <p>"Quarterly Average" means the average of "daily discharges" over a three month period, calculated as the sum of all "daily discharges" measured during the quarter divided by the number of "daily discharges" measured during the quarter. The quarterly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the quarter. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(61).]</p>

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Narrative Requirements:

Definitions:

Condition	Condition
T-10	<p>Definitions: Maximum Monthly Average</p> <p>Maximum Monthly Average means the highest "monthly average" over a monitoring period. [40 CFR 122]</p>
T-11	<p>Definitions: Quarterly Maximum</p> <p>"Quarterly Maximum" means the highest "daily discharge" measured over a three-month period. [11 Miss. Admin. Code Pt. 6, R.1.1.1.A(62).]</p>
T-12	<p>Definitions: Yearly Average</p> <p>"Yearly Average" means the average of "daily discharges" over a calendar year, calculated as the sum of all "daily discharges" measured during the calendar year divided by the number of "daily discharges" measured during the calendar year. The yearly average for fecal coliform bacteria is the geometric mean of "daily discharges" during the calendar year. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [11 Miss. Admin. Code Pt. 6, R.1.1.1.A(87).]</p>
T-13	<p>Definitions: Yearly Maximum</p> <p>"Yearly Maximum" means the highest "daily discharge" measured over a calendar year. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(88).]</p>
T-14	<p>Definitions: Submitted</p> <p>Except as specifically defined, or otherwise noted, in an applicable regulation or permit, any report, application, or other document or information that is required by these regulations, or by a permit issued by the Permit Board, to be submitted to the Commission, Permit Board, or MDEQ shall be deemed submitted only upon its receipt by MDEQ. [11 Miss. Admin. Code Pt. 6, Ch.1, Subch.1.]</p>

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Narrative Requirements:

Condition	Condition
T-15	<p>The permittee shall achieve compliance with the effluent limitations specified for discharge in accordance with the following schedule:</p> <p>Upon permit issuance the Permittee shall operate under the Effluent Limitations and Monitoring Requirements for Outfall 001. Effluent Limitations and Monitoring Requirements for Outfalls 002, 101, and 201 shall not apply. Upon completion and operation of the infrastructure to connect Meridian POTW, East Meridian POTW, and Mississippi Power Company's Kemper County Facility the Permittee shall operate under the Effluent Limitations and Monitoring Requirements for Outfalls 002, 101, and 201. Effluent Limitations and Monitoring Requirements for Outfall 001 shall not apply. [WPC-1 Chapter One Section IV.A(9)]</p>
T-16	<p>No later than 10 days following the date of compliance specified by this permit, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(10).]</p>
T-17	<p>Change in Discharge</p> <p>All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions or treatment modifications which result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application. If such changes will not violate the effluent limitations to the Mississippi Environmental Quality Permit Board, the permit may be modified to specify and limit any pollutants not previously limited. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A.]</p>
T-18	<p>Adverse Impacts</p> <p>The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of the permit that has a reasonable likelihood of adversely affecting human health or the environment. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(19).]</p>
T-19	<p>The permittee shall provide written notification to the Mississippi Commission on Environmental Quality no later than thirty (30) days after the loss of the permittee's certified operator. [11 Miss. Admin. Code Pt. 6, Ch. 1, Subch. 1.]</p>
T-20	<p>Representative Sampling</p> <p>Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored wastewater. [11 Miss. Admin. Code Pt. 6, R. 1.1.1.A(28).]</p>

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Narrative Requirements:

Condition	Condition
T-21	<p>Reporting</p> <p>If the results for a given sample analysis are such that any parameter (other than fecal coliform) is not detected at or above the minimum level for the test method used, a value of zero will be used for that sample in calculating an arithmetic mean value for the parameter. If the resulting calculated arithmetic mean value for that reporting period is zero, the permittee shall report "NODI = B" on the DMR. For fecal coliform, a value of 1.0 shall be used in calculating the geometric mean. If the resulting fecal coliform mean value is 1.0, the permittee shall report "NODI = B" on the DMR. For each quantitative sample value that is not detectable, the test method used and the minimum level for that method for that parameter shall be attached to and submitted with the DMR. The permittee shall then be considered in compliance with the appropriate effluent limitation and/or reporting requirement. [11 Miss. Admin. Code Pt. 6, Ch. 1, Subch. 2.]</p>
T-22	<p>Reporting</p> <p>If the permittee monitors any pollutant as prescribed in the permit more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Permit Board. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(15)c(2).]</p>
3	<p>Reporting</p> <p>Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Permit Board in the permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(15)(c)(3).]</p>
T-24	<p>Test Procedures</p> <p>Test procedures for the analysis of pollutants shall include those set forth in 40 CFR 136 or alternative procedures approved and/or promulgated by EPA. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(30).]</p>
T-25	<p>Records Retention</p> <p>All records and results of monitoring activities required by this permit, including calibration and maintenance records, shall be retained by the permittee for a minimum of three (3) years, unless otherwise required or extended by the Permit Board, copies of which shall be furnished to the Department upon request. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(29)(a).]</p>

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Narrative Requirements:

Condition	Condition
T-26	<p>Falsifying Reports</p> <p>Any permittee who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required by the Permit Board to be maintained as a condition in a permit, or who alters or falsifies the results obtained by such devices or methods and/or any written report required by or in response to a permit condition, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for a violation of a permit condition pursuant to Section 49-17-43 of the Code. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(29)(d).]</p>
T-27	<p>Duty to Comply</p> <p>The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(2).]</p>
T-28	<p>Proper Operation, Maintenance and Replacement</p> <p>The permittee shall at all times properly operate, maintain, and when necessary, promptly replace all facilities and systems of collection, treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper replacement includes maintaining an adequate inventory of replacement equipment and parts for prompt replacement when necessary to maintain continuous collection and treatment of wastewater. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(18).]</p>
T-29	<p>Duty to Mitigate</p> <p>The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of the permit that has a reasonable likelihood of adversely affecting human health or the environment. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(19).]</p>
T-30	<p>Bypassing</p> <p>The permittee shall comply with the terms and conditions regarding bypass found in 40 CFR 122.41(m). [40 CFR 122.41(m)]</p>

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Narrative Requirements:

Condition	Condition
T-31	<p>Bypassing - Definitions</p> <p>"Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.</p> <p>"Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. [40 CFR 122.41(m)]</p>
T-32	<p>Bypassing - Bypass not exceeding limitations</p> <p>The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the notice and prohibition provisions of the bypass requirements in this permit. [40 CFR 122.41(m)]</p>
T-33	<p>Bypassing -Notice</p> <p>Anticipated bypass-</p> <p>If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.</p> <p>Unanticipated bypass-</p> <p>The permittee shall submit notice of an unanticipated bypass as required by the twenty-four hour reporting requirements set forth in this permit. [40 CFR 122.41(m)]</p>

Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

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Narrative Requirements:

Condition	Condition
T-34	<p>Bypassing- Prohibition of Bypass</p> <p>(1) Bypass is prohibited, and the Commission may take enforcement action against a permittee unless:</p> <ul style="list-style-type: none">(i) Bypass was unavoidable to prevent loss of life, personal injury, or sever property damage.(ii) There was no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and(iii) The permittee submitted notices as required under the Twenty-Four Hour reporting requirements set forth in this permit. <p>(2) The Commission may approve an anticipated bypass, after considering its adverse affects, if the Commission determines that it will meet the three conditions listed above in paragraph (1) of this permit condition. [40 CFR 122.41(m)]</p>
T-35	<p>Upsets</p> <p>The permittee shall meet the conditions of 40 CFR 122.41(n) regarding "Upsets" and as in the upset requirements of this permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(27).]</p>
T-36	<p>Upsets- Definition</p> <p>"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(27).]</p>
T-37	<p>Upsets - Effect of an Upset</p> <p>An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the "conditions necessary for demonstration of upset" requirements of this permit are met. Any determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, shall not constitute final administrative action subject to judicial review. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(27).]</p>

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Narrative Requirements:

Condition	Condition
T-38	<p>Upsets - Conditions necessary for demonstration of upset</p> <p>A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:</p> <ul style="list-style-type: none">(1) An upset occurred and that the permittee can identify the cause(s) of the upset;(2) The permitted facility was at the time being properly operated;(3) The permittee submitted notice of the upset as required in 40 CFR 122.41(L)(6)(ii)(B)(24-hour notice of noncompliance); and(4) The permittee complied with any remedial measures required under 40 CFR 122.41(d) (Duty to Mitigate). [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(27).]
T-39	<p>Upsets - Burden of proof</p> <p>In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(27).]</p>
T-40	<p>Removed Substances</p> <p>Solids, sludges, filter backwash, or other residuals removed in the course of treatment or control of wastewater shall be disposed of in a manner such as to prevent such materials from entering State waters and in a manner consistent with the Mississippi Solid Waste Disposal Act, the Federal Resource Conservation and Recovery Act, and the Mississippi Water Pollution Control Act. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(21).]</p>
T-41	<p>Power Failures</p> <p>If electric power is required, in order to maintain compliance with the conditions and prohibitions of the permit, the permittee shall either:</p> <ul style="list-style-type: none">(1) Provide an alternative power source to operate the wastewater control facilities; or, if such alternative power source is not in existence, and no date for its implementation appears in the permit,(2) Halt, reduce, or otherwise control production and/or all wastewater flows upon reduction, loss, or failure of the primary source of power to the wastewater control facilities. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(22).]

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AI0000013261 (continued):

Narrative Requirements:

Condition	Condition
T-42	<p>Inspection and Entry</p> <p>The permittee shall allow any authorized Commission representative to enter the permittee's premises at any reasonable time, to have access to and copy any applicable records, to inspect process facilities, treatment works, monitoring methods or equipment or to take samples, as authorized by Section 49-17-21 of the Code. In the event of investigation during an emergency response action, a reasonable time shall be any time of the day or night. Follow-up investigations subsequent to the conclusion of the emergency event shall be conducted at reasonable times. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(17).]</p>
T-43	<p>Transfer of Ownership or Control</p> <p>This permit is not transferable to any person without proper modification of this permit following procedures found in [11 Miss. Admin. Code Pt. 6, R. 1.1.5.C.]</p>
T-44	<p>Signatory Requirements</p> <p>All applications, reports, or information submitted to the Permit Board shall be signed and certified. [11 Miss. Admin. Code Pt. 6, R. 1.1.2.C.]</p>

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Narrative Requirements:

Condition

Condition

T-45 Signatory Requirements - Application Signatures

All permit applications shall be signed as follows:

(1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (i) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy - or decision-making function for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. [11 Miss. Admin. Code Pt. 6, R. 1.1.2.C.]

I-46 Signatory Requirements -Reports and Other Information

All reports required by the permit and other information requested by the Permit Board shall be signed by a person described by the application signature requirements in this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described by the application signature requirements;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

(3) The written authorization is submitted to the Permit Board. [11 Miss. Admin. Code Pt. 6, R. 1.1.2.C.]

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Narrative Requirements:

Condition

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T-47 Signatory Requirements - Changes to Authorization

If an authorization under the signatory requirements of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the signatory requirements of this permit must be submitted to the Permit Board prior to or together with any reports, information, or applications. [11 Miss. Admin. Code Pt. 6, R. 1.1.2.C.]

T-48 Signatory Requirements - Certification

Any person signing a document under the signatory requirements stated in this permit shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." [11 Miss. Admin. Code Pt. 6, R. 1.1.2.C.]

19 Availability of Records

Except for information deemed to be confidential under the Mississippi Code Ann. 49-17-39 and 40 CFR 123.41, file information relating to this permit shall be made available for public inspection and copying during normal business hours at the office of the Department of Environmental Quality in Jackson, Mississippi. Written request must be provided in accordance with policies developed by the Commission and must state, specifically, records proposed for review, date proposed for review and copying requirements. [11 Miss. Admin. Code Pt. 6, R. 1.1.3.E.]

T-50 Duty to Provide Information

The permittee shall furnish to the Permit Board within a reasonable time any relevant information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. The permittee shall also furnish to the Permit Board upon request, copies of records required to be kept by the permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(16).]

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Narrative Requirements:

Condition	Condition
T-51	<p>Toxic Pollutants</p> <p>The permittee shall comply with any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) established under Section 307(a) of the Federal Water Pollution Control Act. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(26).]</p>
T-52	<p>Toxic Pollutants Notification Requirements</p> <p>The permittee shall comply with the applicable provisions of 40 CFR 122.42. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(26).]</p>
T-53	<p>Civil and Criminal Liability</p> <p>(1) Any person who violates a term, condition or schedule of compliance contained within this permit or the Mississippi Water Pollution Control Law is subject to the actions defined by law.</p> <p>(2) Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.</p> <p>(3) It shall not be the defense of the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(24).]</p>
T-54	<p>Oil and Hazardous Substance Liability</p> <p>Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Federal Water Pollution Control Act and applicable provisions under Mississippi Law pertaining to transportation, storage, treatment, or spillage of oil or hazardous substances. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(23).]</p>
T-55	<p>Property Rights</p> <p>The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations. [11 Miss. Admin. Code Pt. 6, R. 1.1.5. E.]</p>

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AI0000013261 (continued):

Narrative Requirements:

Condition	Condition
T-56	<p>Severability</p> <p>The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(25).]</p>
T-57	<p>Protection of Confidential Information</p> <p>(1) Pursuant to Miss. Code Ann. ' 49-17-39 and 40 CFR 123.41, the Permit Board shall make available to the public all information contained on any form and all public comments on such information. Effluent data and information concerning air or water quality shall also be made available to the public. Information that is determined by the Commission to be trade secrets shall not be disclosed to the public without prior consent of the source of such information. When a claim of confidentiality is made by a person in accordance with the provisions of Miss. Code Ann. ' 49-17-39, a recommendation on the questions of confidentiality shall be made by the Commission and forwarded to the Regional Administrator (or his/her designee) of EPA for his concurrence in such determination of confidentiality. [11 Miss. Admin. Code Pt. 6, R. 1.1.3.F.]</p>
T-58	<p>Protection of Confidential Information- continued</p> <p>(2) A copy of a State, UIC, or NPDES permit application, public notice, fact sheet, draft permit and other forms relating thereto, including written public comment and other reports, files and information relating to the application not classified as confidential information by the Commission pursuant to part (1) of this requirement, shall be available for public inspection and copying during normal business hours at the office of the Department in Jackson, Mississippi. [11 Miss. Admin. Code Pt. 6, R. 1.1.3.F.]</p>
T-59	<p>Protection of Confidential Information- continued</p> <p>(3) Upon determination by the Commission that information submitted by a permit applicant is entitled to protection against disclosure as trade secrets, the information shall be so labeled and otherwise handled as confidential. Copies of the information and a notice of the Commission's action shall be forwarded to the Regional Administrator (or his/her designee). In making its determination of entitlement to protection as a trade secret, the Commission shall follow the procedure set forth in Miss. Code Ann. ' 49-17-39. In the event the Commission denies the claim of confidentiality, the applicant shall have, upon notification thereof, the right to appeal the Commission's determination in the same manner provided for other orders of the Commission. No disclosure, except to EPA, shall be allowed until any appeal from the determination of the Commission is completed. [11 Miss. Admin. Code Pt. 6, R. 1.1.3.F.]</p>

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AI0000013261 (continued):

Narrative Requirements:

Condition

Condition

T-60

Spill Prevention and Best Management Plans

Any permittee which has above ground bulk storage capacity, of more than 1320 gallons or any single container with a capacity greater than 660 gallons, of materials and/or liquids (including but not limited to, all raw, finished and/or waste material) with chronic or acute potential for pollution impact on waters of the State and not subject to Mississippi Hazardous Waste Management Regulations or 40 CFR 112 (Oil Pollution Prevention) regulations shall provide secondary containment as found in 40 CFR 112 or equivalent protective measures such as trenches or waterways which would conduct any tank releases to a permitted treatment system or sufficient equalization or treatment capacity needed to prevent chronic/acute pollution impact. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(12)(a).]

T-61

Reopener Clause

This permit shall be modified, or alternately, revoked and reissued, to comply with any applicable effluent standard, limitation or storm water regulation issued or approved under Section 301(b)(2)(C), and (D), 304(b)(2), 307(a)(2) and 402(p) of the Federal Water Pollution Control Act if the effluent standard, limitation or regulation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit; or
3. This permit shall be modified to reflect any additional or otherwise more stringent limitations and additional monitoring as determined to be necessary by the results of a Completed TMDL. [WPC-1 Chapter One Section IV.F(1)]

T-62

Closure Requirements

Should the permittee decide to permanently close and abandon the premises upon which it operates, it shall provide a Closure Plan to the Permit Board no later than 90 days prior to doing so. This Closure Plan shall address how and when all manufactured products, by-products, raw materials, stored chemicals, and solid and liquid waste and residues will be removed from the premises or permanently disposed of on site such that no potential environmental hazard to the waters of the State will be presented. Closure plan(s) submitted to and approved by Mississippi Department of Environmental Quality for compliance with other environmental regulations will satisfy the closure requirements for those items specifically addressed in the closure plan(s) as long as the closure does not present a potential for environmental hazard to waters of the State. [11 Miss. Admin. Code Pt. 6, R. 1.1.4.A(11).]

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AI0000013261 (continued):

Narrative Requirements:

Condition	Condition
T-63	<p>Permit Actions</p> <p>The permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a modification of planned changes or anticipated noncompliance, does not stay any permit condition. [11 Miss. Admin. Code Pt. 6, R. 1.1.5.C(5).]</p>
T-64	<p>Effluent limitations and monitoring requirements for Outfalls 001, 002, 101, 201 as listed in this permit will only be applicable when the treated effluent from that outfall is ultimately discharged into Sowashee Creek. [WPC-1 Chapter One]</p>
T-65	<p>The facility shall record and make available upon request the durations of all discharges of treated wastewater from Outfall 002. [WPC-1 Chapter One]</p>

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RPNT0000000001 (MS0020117-001) Outfall 001 (Domestic / Municipal Wastewater Effluent):

Submittal/Action Requirements:

Condition

Condition

S-1	The Permittee shall submit analytical results on a monthly Discharge Monitoring Report (DMR): Due monthly, by the 28th of the subsequent month. [WPC-I Chapter One IV.A(15)c]
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RPNT0000000002 (MS0020117-101) Outfall 101 (Internal Outfall from Meridian POTW):

Submittal/Action Requirements:

Condition

Condition

S-1

The Permittee shall submit analytical results on a monthly Discharge Monitoring Report (DMR): Due monthly, by the 28th of the subsequent month. [WPC-I Chapter One IV.A(15)c]

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RPNT0000000003 (MS0020117-201) Outfall 201 (Internal Outfall from East Meridian POTW):

Submittal/Action Requirements:

Condition

Condition

S-1 The Permittee shall submit analytical results on a monthly Discharge Monitoring Report (DMR): Due monthly, by the 28th of the subsequent month. [WPC-1 Chapter One IV.A(15)c]

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RPNT0000000004 (MS0020117-002) Outfall 002 (Combined Domestic / Municipal Wastewater Effluent from Outfall 101 and 201):

Submittal/Action Requirements:

Condition

1.

Condition

S-1

The Permittee shall submit analytical results on a monthly Discharge Monitoring Report (DMR): Due monthly, by the 28th of the subsequent month. [WPC-1 Chapter One IV.A(15)c]

GENERAL INFORMATION

Meridian POTW
311 27th Avenue
Meridian, MS
Lauderdale County

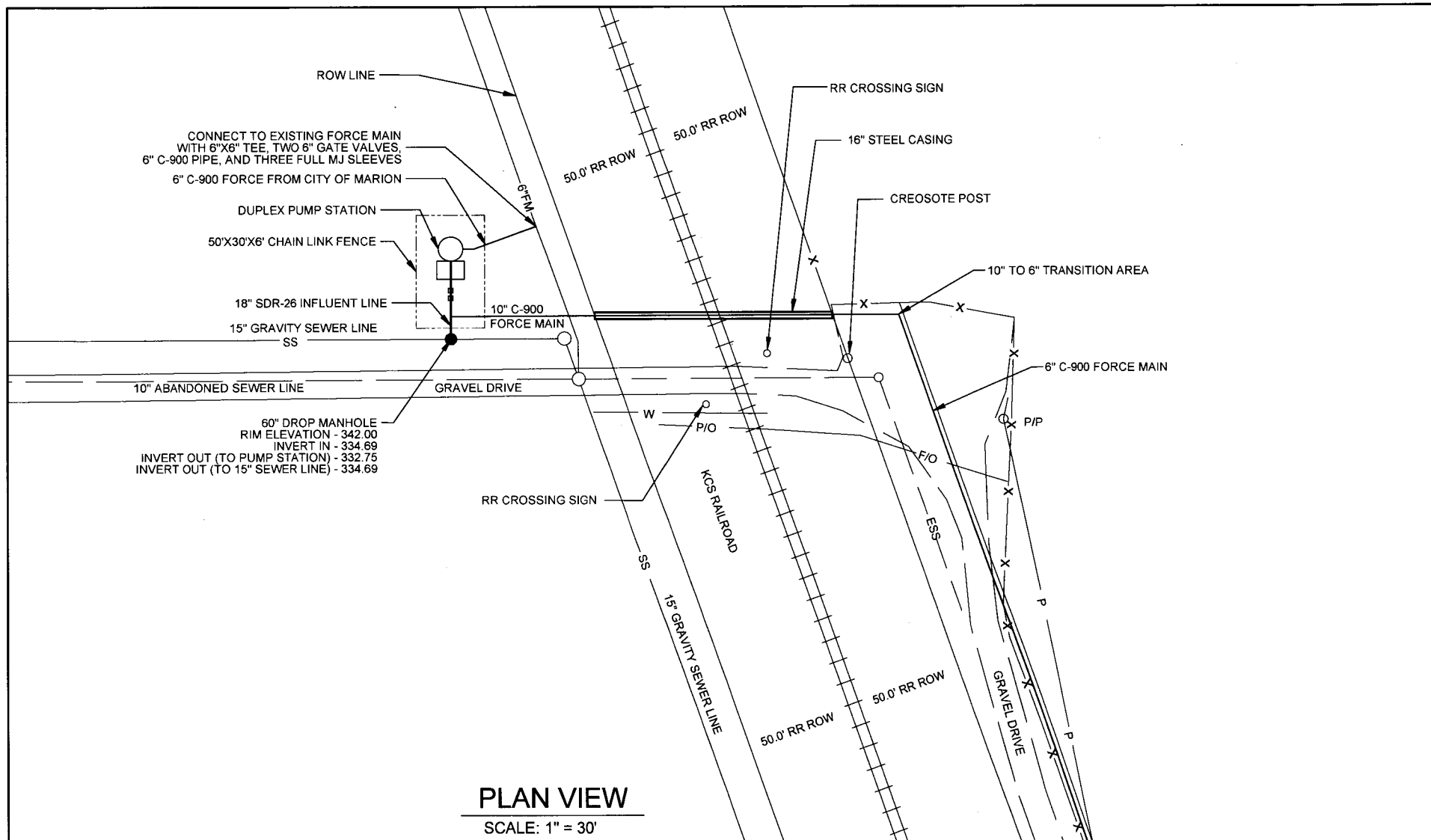
Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
15261	City of Meridian	Official Site Name	3/14/1995	
MS0020117	Meridian POTW	Water - NPDES	3/15/2000	2/22/2005
MS0020117	Meridian POTW	Water - NPDES	3/14/1995	3/13/2000
MS0020117	Meridian POTW	Water - NPDES	2/22/2005	1/31/2010
MS0020117	Meridian POTW	Water - NPDES	6/8/2010	5/31/2015

Basin: Pascagoula River Basin

Location Description:

Relevant Documents: Cover Letter, Lab Data, Form 2A



DATE:
JULY 2014

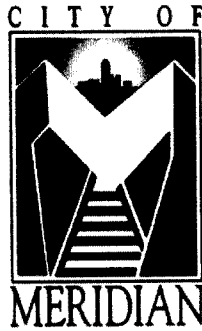
PRELIMINARY



EAST MERIDIAN PUMP STATION
SITE PLAN
MERIDIAN, MISSISSIPPI

DRAWING
C-1

City of Meridian



Bypass and Sanitary Sewer Overflow (SSO) Reporting and Follow-Up Procedure Policy

Department of Public Works

City of Meridian
311 27th Street
Meridian, MS 39302

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City of Meridian

I. POLICY

Scope:

Procedures for dealing with Sanitary Sewer Overflows (SSO); Spill Notification; Reporting and Follow-up Activities

Objective:

The purpose of this policy is to inform and provide direction for Bypass and SSO reporting and follow-up procedures to maintain the City's compliance with Federal and State regulations as they apply to accidental discharges from the wastewater collection system only (including lift stations). A separate policy exists for the wastewater treatment plants.

Applicability:

Regulatory and Enforcement Agencies Applicable to this Policy:

- State of Mississippi – Mississippi Department of Environmental Quality (MSDEQ)
- United States of America - United States Environmental Protection Agency (USEPA)

This policy applies to all Lines-Maintenance Division personnel. Each employee should have working knowledge of this policy and is responsible for ensuring each Bypass or SSO they have knowledge of is handled in a manner that complies with this policy.

Both the MSDEQ and USEPA consider an "overflow", "spill", or "bypass" issues that require reporting. USEPA requires reporting, but only when the discharge reaches the "waters of the United States" Under Section 301 of the Clean Water Act, 33 U.S.C. section 1311, "...it is unlawful for any person to discharge any pollutant from a point source to the waters of the United States..."

Employee Responsibility:

A. Responsibilities of Lines-Maintenance employees:

1. Working knowledge of all phases of this policy.
2. Correct, Repair, and/or Report (through their appropriate chain of command) any known conditions or defects that are creating an SSO or that might lead to a future SSO.
3. Any and all SSO's must be recorded on a Wastewater Bypass/Overflow report Form. Additional information may be required for the preparation of the SSO form. This form shall be completed by the Lines-Maintenance Superintendent at the first available opportunity, but no later than the end of each business day.
4. The area contaminated by the Bypass/SSO will be cleaned up and disinfected immediately after the spill is contained.
5. The MSDEQ "Wastewater Bypass/Overflow Report Form will be used as the department's form for the reporting of Bypass/SSOs.
6. If a Spill is suspected during normal business hours, notify the Line-Maintenance Superintendent immediately.

B. Responsibilities of Standby Personnel

1. For after-hour and weekend SSO's, the same responsibilities apply. The Lines-Maintenance Superintendant or his designee shall be notified immediately.
2. The Line-Maintenance Superintendant or his designee will make telephone contact to the MSDEQ and/or USEPA for weekends and holidays to comply with the 24-hour notification requirement. A standardized form titled SANITARY SEWER OVERFLOW – REGULATORY TELEPHONE REPORTING will be utilized to accomplish the notification within the 24-hour requirement (See Attachment No.1).

C. Responsibilities of Lines-Maintenance Crew Supervisor

1. Supervisory responsibility for compliance by field crews to this policy.
2. Use of correct clean up and disinfection procedures.
3. Determine the cause of the SSO. If it is caused by a blockage in the line, place on the maintenance jetting schedule. If the SSO was caused by factors such as roots, collapsed line, etc., make recommendations to correct the cause of the Bypass/SSO.
4. Use established procedures and maintenance routines that promote collection system flows in a manner that lessen the possibility of a Bypass/SSO to occur.

5. Communicate on a daily basis all suspected Bypass/SSOs to the Lines-Maintenance Superintendant.
6. In the event of a Bypass/SSO, contact Lines-Maintenance Superintendant or Public Works Director immediately.

D. Responsibilities of Line-Maintenance Superintendent

1. Insure all activities of the division and employees are in accordance with this policy. Periodically review this policy and update as required.
2. Verify all reporting paperwork, forms, and any testing that may be required.
3. Insure that MSDEQ and/or USEPA receive required notification per their regulations.
4. Submit budget recommendations for sewer main repair, maintenance, rehabilitation, and replacement to reduce Bypass/SSO's.
5. Maintain a historical database of all SSO's by month and street address.
6. Maintain typed copies of the MSDEQ Water Quality Noncompliance Notification forms for each SSO occurrence.
7. Develop activities necessary to insure maintenance, repair, and reduction of inflow & infiltration.
8. Provide the Public Works Director and Assistant Public Works Director with copies of all paperwork sent to MSDEQ and USEPA.

III. MSDEQ Notification

There are three (3) ways the MSDEQ is to be notified:

- A. Telephone contact within 24-hours after a SSO is determined. The Regulatory Telephone Reporting form has a phone number to call during normal business hours. For evenings, weekends and holidays, leave a message on the recorder. The typed "Wastewater Bypass/Overflow Report" form is mailed and Faxed to MSDEQ.

**24-Hour State Warning Point
601-352-9100 or 800-222-6362**

**Contact: Jim Harvey, MSDEQ
Telephone: 601-961-5591**

- B. A cover letter and monthly summary report is mailed to Region 4 District Office that lists each of the SSO's reported to the MSDEQ and USEPA on the form for each month (See attachments 3,4 and 5).
- C. If an SSO is reported to the USEPA, copies are forwarded to the MSDEQ in Jackson and also the Central Regional office in Pearl. The "Wastewater Bypass/Overflow Report" is mailed to two (2) locations. The original is mailed to Jackson and a copy is mailed to the regional office in Pearl. The form (See Attachment 1) is to be completed as follows:
 - i. Permittee Name: City of Meridian
 - ii. Permit Number: _____ (depends on location of Bypass/Overflow)
 - iii. Bypass Source: Manhole Number, pump station number, etc.
 - iv. Source Location: Street Address, etc.
 - v. Date and Time bypass began (estimate if necessary)
 - vi. Date and Time bypass ended (estimate if necessary)
 - vii. Volume of wastewater bypassed (estimate if necessary)
 - viii. State waters affected:
 - ix. Cause of bypass: (Three main causes are Stoppage (due to grease, roots, collapsed main, etc.). Surcharge due to a Heavy Rain Event, or Lift Station Malfunction and report the Size of the main)

- x. Temporary corrective actions taken: Under normal circumstances, the area should always be "Disinfected"
- xi. Permanent corrective actions taken: This response varies based on the occurrence.
- xii. Number of bypasses at this location in past 12 months: Refer to SSO database and update.
- xiii. What actions were taken to prevent or minimize adverse environmental impact: List action taken such as temporary containment structures, earth dikes, pumping spillage, disinfection, etc.
- xiv. If bypass caused due to inflow of rainfall, how many inches of rain fell in the area? Record total rainfall for the storm event that generated to overflow.
- xv. Signature of Director or Superintendant, title, City address, telephone number and date.

D. Mailing Addresses

The original notification must be sent to:

Jim Harvey
Mississippi DEQ
OPC/Environmental Compliance & Enforcement
P.O. Box 10385
Jackson, MS 39289-0385

A copy of the notification must be sent to:

Mississippi Dept. of Environmental Quality
Central Regional Office

IV. USEPA Notification

A. There are two (2) ways the USEPA is to be notified.

1. Telephone contact within 24-hours when the discharge reached the "waters of the United States". The Regulatory Telephone Reporting form has a phone number to call during normal business hours and a 24-Hour Hotline number for all other times.

Region 4, 24 Hour Spill Reporting Number: 404-562-8700

2. In the event of an exceptional SSO, draft a cover letter on CITY letterhead, describing the SSO, generally it should contain the same type of information as on the MSDEQ notification form. A copy of the letter, SSO form, and map is also mailed to the MSDEQ in Jackson and the Regional office in Pearl. (See attachment 6).

Mailing Address:

United States Environmental Protection Agency
Region IV
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-3104

Complete the MSDEQ Notification, but in the upper right hand corner, show "To EPA, the Permit No., and the name of the receiving water or stream" (See attachment 1). A map page with the location of the SSO circled maybe attached to the form submitted.

V. Attachments

Attachment 1 Wastewater Bypass/Overflow Report to the Mississippi Office of
Pollution Control

Attachment 2 Telephone Notice of Overflow/Bypass

Attachment 3 MSDEQ monthly cover letter

Attachment 4 MSDEQ Monthly Summary Data with copy to EPA

Attachment 5 USEPA cover letter to report a SSO

Attachment 6 Emergency Telephone Numbers

Attachment 7 SSO Investigative Chart for Manholes

Attachment 1

**WASTEWATER BYPASS/OVERFLOW REPORT
TO THE MISSISSIPPI OFFICE OF POLLUTION CONTROL**

- I. PERMITTEE NAME: _____
- II. PERMIT NO.: _____
- III. Bypass source (i.e., manhole, pump station, etc.): _____

- IV. Source location (i.e., street, etc.): _____

- V. Date/time bypass began (estimate if necessary): _____

- VI. Date/time bypass ended (estimate if necessary): _____

- VII. Volume of wastewater bypassed (estimate if necessary): _____

- VIII. State waters affected (i.e., river, stream, lake, etc.): _____

- IX. Cause of bypass: _____

- X. Temporary corrective actions taken: _____

- XI. Permanent corrective actions taken: _____

Attachment 1 – cont'd.

XII. Number of bypasses at this location in the past 12 months: _____

XIII. What actions were taken to prevent or minimize adverse environmental impact?

XIV. If bypass caused due to inflow of rainfall, how many inches of rain fell in the area? _____

Signature: _____

Title: _____

Address: _____

Date: _____

Attachment 2
Telephone Notice of Overflow/Bypass

SANITARY SEWER OVERFLOW
REGULATORY TELEPHONE REPORTING

The following are steps to be taken in the event of a sanitary sewer overflow. Prior to making a phone call to the governmental agencies, complete the information listed below:

1. DATE OF OVERFLOW: _____
2. ADDRESS LOCATION : _____ Manhole No.: _____
3. PERMIT #:
4. DRAINAGE BASIN: _____
5. CAUSE OF OVERFLOW: _____
(Ex: grease, roots, brick, rocks, rain surcharge, collapsed pipe, etc...)
6. ESTIMATED VOLUME: _____
7. CLEAN UP / REPAIR ACTIVITIES: _____
8. OVERFLOW CONTAINED OR NOT ?:
9. TELEPHONE CONTACT: Begin the phone call by stating the following:
"This is {your name} with the City of Meridian Public Works reporting a sanitary sewer overflow. The contact phone # is _____. We are providing the following telephone information. A written report will be mailed. "(Report the information recorded above)
10. MSDEQ REPORTING:

Call to Report a Spill or Immediate Threat to Wildlife:
1-601-352-9100 or 1-800-222-6362

Jim Harvey 601-961-5591 Or a Water Quality Person (Leave a message if no answer)

11. EPA REPORTING: (If flow goes into waters of US, storm drain, creek, or lake)

Region 4, 24 Hour Spill Reporting Number: 404-562-8700

Attachment 3
Example MSDEQ Monthly Cover Letter

(Date)

Jim Harvey
Mississippi DEQ
OPC/Envir. Compliance & Enforcement
P.O. Box 10385
Jackson, MS 39289-0385
601-961-5591

Ref: NPDES Permit No. _____

Dear Mr. Harvey:

Attached is the monthly sanitary sewer overflow report for the City of Meridian permit number _____. A copy of the report has also been sent to the MSDEQ, Central Regional Office in Pearl.

Should you have any question concerning the report or require any additional information, please advise.

Sincerely,
CITY OF MERIDIAN

cc: MDEQ Central Regional Office
Region IV EPA, Atlanta

Monthly Sanitary Sewer Overflow Summary Report
City of Meridian
311 27th Street
Meridian, MS 39302

[illegible]

By: _____

Attachment 5
USEPA Notification Report

**City of Meridian
311 27th Street
Meridian, MS 3930**

(Date)

United States Environmental Protection Agency
Region IV
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-3104

SEWAGE BYPASS NOTIFICATION
PERMIT NUMBER _____

On (date) wastewater escaped from the City of Meridian's collection system (see attached map). The incident occurred at (address). The discharge was from (num.) manholes due to (surcharge in (size) sanitary sewer line, pump station failure, blockage, force main failure, storm damage, vandalism, etc).

The discharge of approximately (amount) gallons flowed to (location) and occurred at (time) on (date). Service was restored at (time) on (date). Clean up and Disinfection (dike, sandbagging, pumping, temporary bypass pumping, etc.) was performed.

cc: Jim Harvey, MSDEQ, Jackson, MS
MSDEQ, Central Regional Office, Pearl, MS

Attachment 6
Emergency Phone Numbers

<u>Emergency Phone Numbers</u>	<u>Primary Number</u>	<u>Secondary Number</u>
Emergency (County-E9-1-1)	911	
City of Meridian		
• Public Works Director	601-485-1920	
• Assistance Public Works Director	601-484-6835	
• Lines-Maintenance Superintendent	601-485-1963	
• Home Land Security Director	601-484-6890	
• Police Department	601-485-1893	
• Fire Department	601-485-1822	
Ambulance Service:	601-483-2260	
AT&T Telephone Company:	800-820-6000	
Atmos Gas Company:	601-693-6333	
Hospitals:		
• Rush Hospital	601-483-0011	
• Anderson Regional	601-553-6000	
Mississippi: State Agency		
Emergency Management Agency	601-352-9100	800-222-6362
Mississippi DEQ – Jackson	601-961-5010	
Mississippi Power Company:	601-484-2604	601-484-2697
Mississippi State Hwy Patrol:	601-693-1926	
Public Service:		
Radio Station (Meridian Radio Group)	601-483-5477	
Television Station: WTOK	601-693-1441	

Attachment 7

SSO Investigative Chart for Manholes

Cause	Diagnostic Tools	Actions to Prevent Future Occurrences
Hydraulic Capacity Limit (Dry Weather)	Hydraulic Modeling Engineering Evaluation Support Temporary Flow Monitoring	Clean more frequently until line is relieved; Temporarily escalate wastewater minimization practices through public education/notification practices; Report to engineering.
Rain-dependent Infil. (Pipe Defects)	Engineering Evaluation Support CCTV Inspection Smoke Testing Dyed Water Flood Testing	Clean more frequently prior to capital I/I rehabilitation; Report to engineering
Inflow (X-connect, Manhole Cover)	Smoke Testing Dyed Water Flood Testing With CCTV Temporary Flow Monitoring Manhole Inspection Inspect Right-of-way/easement	Remove x-connect; Install manhole inflow protectors
Groundwater Infiltration	Smoke Testing Night Time Flow Isolation Testing Piezometric Data	Clean more frequently prior to capital I/I rehabilitation
Debris Deposition	CCTV Inspection Manhole Inspection Line Lamping	Clean line; Monitor need for increased cleaning frequency
Partial/total Line Collapse	CCTV Inspection Line Lamping	Make point repair
Sag	CCTV Inspection Line Lamping	Make point repair
Flat/reverse Grade	Line Lamping Ground Survey	Clean more frequently until capital improvement made
Severely Offset Joints	CCTV Inspection Line Lamping	Make point repair
Grease	CCTV Inspection Manhole Inspection	Thoroughly clean the line; Escalate source control efforts
Roots	CCTV Inspection Line Lamping Manhole Inspection	Mechanically or chemically remove roots; Exercise source control
Protruding Tap (Collector Sewer)	CCTV Inspection	Remove protruding tap
Vandalism	CCTV Inspection Manhole Inspection Line Lamping	Bolt down manhole cover to keep foreign material out; Coordinate with police for increased patrolling of area
Adjacent Construction Activities	CCTV Inspection Temporary Flow Monitoring Line Lamping Construction Observation/inspection Inspect Right-of-way/easement	Increase city monitoring of 3rd party construction activities; Monitor flows
Downstream Pump Station Failure	Check Pump Station Status	See PUMP STATION/TRANSMISSION SYSTEM

Attachment 7 con't.

SSO Investigative Chart

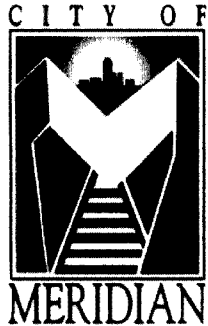
Backup into Buildings

Cause	Diagnostic Tools	Actions to Prevent Future Occurrences
Collapse, Sag	CCTV Inspection	Engage services of a plumber
Grease, Debris and Roots	CCTV Inspection	Engage services of a plumber of line cleaning service; consider replacement of service if a chronic problem; install additional clean-out(s) as necessary.
Infiltration/inflow	CCTV Inspection Smoke Testing Dyed Water Flood Testing Ground-penetrating Radar	Remove inflow sources, e.g., sump drains, roof leaders
Defective Service Connection at Collector Sewer	CCTV Inspection	Proper reconnection by City
Collector Sewer Backup Into Service Lateral	See MANHOLE	(See MANHOLE, City responsibility)



EMERGENCY RESPONSE AND CONTINGENCY PLAN FOR SANITARY SEWER SYSTEM

**PUBLIC WORKS DEPARTMENT
CITY OF MERIDIAN
311 27TH STREET
MERIDIAN, MS 39302**



EMERGENCY RESPONSE & CONTINGENCY PLAN FOR SANITARY SEWER SYSTEM

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- B. Collection System Maintenance
- C. Policy Report on Sanitary Sewer Overflows
- D. Example Notices and Signage
- E. Estimating Sanitary Sewer Overflow Volume and HTH Requirements

1.0 INTRODUCTION

The Meridian Public Works Department has developed a written Collection System Contingency Plan to adequately protect the health and welfare of persons in the event of any sewage overflow from the Meridian's wastewater collection and transmission systems.

2.0 PURPOSE OF THE EMERGENCY RESPONSE PLAN (ERP)

The purpose of the Collection System Contingency and Emergency Response Plan (ERP) is to assure prompt and appropriate response to sewage spills, so that any adverse effects to public health, water quality, or customer service can be minimized. The ERP further includes provisions to ensure reports are made to the appropriate local, state and federal authorities. For the purposes of this ERP, "a confirmed sewage spill" is referred to as any of the following: "sewer overflow", "SSO", "overflow", "bypass" or "pumping station overflow." Amendments approved by the Public Works Director may be incorporated into the plan. Accordingly, users should make sure they are using the most recently updated plan.

2.1 OBJECTIVES

The primary objectives of the ERP are (1) the protection of public health and the environment, (2) compliance with requirements governing the procedures for managing sewer overflows, and (3) minimization of the risk of enforcement actions against the City of Meridian.

Additional objectives of the ERP are as follows:

- Protect wastewater treatment plant and collection system personnel;
- Protect private and public property adjacent to the collection and treatment facilities;
- Protect the collection system, pumping stations, wastewater treatment facilities, and all appurtenances;
- Achieve customer service goals.

The ERP shall not supersede other City of Meridian emergency operations plans or Standard Operating Procedures (SOPs) unless determined and directed otherwise by the appropriate authority.

2.2 ORGANIZATION OF PLAN

The key elements of the ERP are addressed individually:

- Section 3.0 Overflow Response Procedure
- Section 4.0 Monitoring/Sampling of Surface Waters Affected by Major Spills
- Section 5.0 Public Advisory Procedure
- Section 6.0 Regulatory Agency Notification Procedure
- Section 7.0 Media Notification Procedure
- Section 8.0 Distribution and Maintenance of ERP

2.3 DEFINITIONS OF PERTINENT TERMINOLOGY

Appendix A is a glossary of selected terms used in the ERP, and for definitions of other relevant terms not necessarily used in the ERP but provided for additional background.

2.4 SEWER OVERFLOW AND PUMPING STATION OVERFLOW INVESTIGATION AND TRACKING

A database that contains the specific details and the location of sewer collection line overflows and pumping station overflows will be maintained in the Lines-Maintenance Division of Public Works. The database will assist the Public Works Director and Assistant Public Works Director in developing capital-type corrective projects and to prioritize maintenance activities where chronic problems have been historically encountered.

After an overflow event, an investigative approach will be taken to establish the following criteria:

1. An investigative approach will be taken to determine the cause of a sewage overflow.
2. Right-of-ways and manholes will be inspected to determine the extent of the problem. These inspections will be conducted both upstream and downstream from the site of the sewage overflow.
3. Follow-up inspections will be performed at the site of a sewage overflow in order to determine the effectiveness of the corrective actions. Data will be captured on the Meridian's Work Order form. If no additional evidence of overflows is found, these inspections will be terminated.
4. After each sewage overflow, the Preventive Maintenance (PM) schedule for the affected sewer(s) for cleanings, inspections, etc., will be reconsidered in order to prevent similar future occurrences. The site of the sewage overflow will remain on an accelerated or more frequent PM schedule, if necessary, until it is reasonably determined that the site is no longer a risk for a future occurrence due to maintenance needs.
5. Where conditions that may pose a considerable risk for an overflow are known to exist, in the Wastewater Collection and Transmission System, it will be brought to the attention of management by field staff. Proactive measures will be taken to minimize the risk of overflows from occurring. Until the work order and physical inspection databases are fully integrated with the GIS mapping system to allow electronic queries to help locate other sites in the Wastewater Collection and Transmission System where similar overflow events may occur, City staff will be dependent on random discovery of sites based on a systematic evaluation of the wastewater collection system.
6. After the occurrence of a sewage overflow, notification of relevant parties will be conducted (if applicable) in order to prevent similar occurrences. Examples of relevant

parties would include employees and management of restaurants, manufacturers, construction sites, etc. if their actions contributed to an overflow. Notification would include information on City Ordinances applicable to the given parties and type of operation, what requirements must be met in order to comply with the given ordinance, and what measures should be taken to eliminate future overflows.

3.0 OVERFLOW RESPONSE PROCEDURE

The Overflow Response Procedure presents a strategy for the City to mobilize labor, materials, tools and equipment to correct or repair and mitigate any condition which may cause or contribute to: 1) an unpermitted discharge (i.e., discharge to surface waters); and, 2) other sewer overflows and pumping station overflows which are successfully contained and present no threat to jurisdictional waters of the State (surface waters). The plan considers a wide range of potential system failures that could create a spill to surface waters and to structures and/or land surfaces.

3.1 RECEIPT OF INFORMATION REGARDING A SEWER OR PUMPING STATION OVERFLOW

A sewer overflow detected by City employees or by others during normal business hours should be reported by dialing 601-485-1976. This is the primary number used for receiving phone calls from the public of possible sewage overflows from the wastewater collection system and transmission system (e.g., sewer pipes and pump stations) and for notifying the appropriate personnel in the City.

After hours telephone calls from the public reporting possible sewage overflows and pumping station overflows are received by the City. The primary telephone number used for after hours reporting is 601-485-1975. The City office takes calls 24 hours per day, every day of the year.

- 1) The City shall obtain information offered by the caller and seek other relevant information regarding the overflow, including:
 - a. Time and date the call was received.
 - b. Specific location of possible sewer overflow.
 - c. Time possible overflow was noticed by the caller.
 - d. Caller's name and phone number.
 - e. Observations of the caller (e.g., odor, duration, back or front of property).
 - f. Whether overflow has reached water or is flowing towards a creek or river.
 - g. Whether the overflow has reached or is flowing towards a park, playground, schoolyard or other public access location.
 - h. Other relevant information that will enable the responding investigator and crews, if required, to quickly locate, assess and stop the overflow.
- 2) The City enters the overflow information into the database using the work order system and notifies the Lines-Maintenance Superintendent or designee of the Public Works Director.

City calls are handled as follows in order of priority, based on the degree of public access to the overflow location:

- Overflow caused by a rain event with/without immediate and direct public access.
 - Sewer Overflow or Pumping Station Overflow to a Creek or Dry Land with/without immediate and direct public access.
 - Cave In; Sewer Overflow or Pumping Station Overflow to Dry Land with/without immediate and direct public access where erosion of subsurface material has created unstable soil conditions.
- 3) During normal office hours, once notification of a sewage overflow is received, the Lines-Maintenance Superintendent will dispatch the appropriate Maintenance Crew for investigation. Confirmed sewage overflows are immediately reported back by the Crew Supervisor or designee.
 - 4) Sewage overflows detected by any personnel in the course of their normal duties shall be reported immediately to the Lines-Maintenance Department. The City shall record the relevant overflow information and immediately notify the appropriate officials and/or agencies.
 - 5) A Supervisor or trained personnel shall confirm any reported possible sewer spill or pumping station overflow. Until confirmed, the reported possible spill or overflow should be referred to as a "possible" spill or overflow, not as a "sewage overflow" or "un-permitted discharge".
 - 6) The Lines-Maintenance Superintendant or designee shall complete a Wastewater Bypass/Overflow Report form within 24 hours of confirming that the reported spill has reached a water of the state or dry land, including structures. Table 1 summarizes the sewage overflow and pumping station overflow response tracking protocol.
 - 7) When after hour notification of pump station overflows are received by City personnel. The plant operator on duty shall immediately convey all information regarding failures and overflows to the on-call Supervisor or Line-Maintenance Superintendent and they shall initiate the investigation and correction. Alarms due to equipment failure or power outage are reported electronically from some of the pumping stations. These alarms are reported to a Lines-Maintenance Technician and are investigated immediately.

Should an employee recognize that neither a supervisor or the Lines-Maintenance superintendent is available to document a spill or bypass, the employee should report this information to the Public Works Director. The Director may ask the employee to medicate the spill until the Lines-maintenance Superintendent or a Crew Supervisor or designee arrives at the spill site.

TABLE 1
City of Meridian
SEWER OVERFLOW AND PUMPING STATION OVERFLOW RESPONSE
TRACKING PROTOCOL

1. Report of possible sewer overflow or pumping station overflow received by Lines-Maintenance Department.
 2. Lines-Maintenance Department completes a work order request for service documenting the provided information.
 3. Possible Sewer/Pump Station Overflow: Lines-Maintenance Superintendent or designee in the City who will investigate the reported sewer overflow is notified.
Verification is provided by Lines-Maintenance Superintendent or designee who will investigate the reported sewer overflow.
 4. Verified Sewer Overflow: Lines-Maintenance Superintendent or designee assesses the significance of the overflow.
 - a. (e.g., volume/flow rate of spill, contained vs. discharge to surface water) and confirms overflow to the Public Works Director. Initial telephone notification of regulatory agencies (i.e., MDEQ and EPA if overflow reaches waters of US) is made by the Lines-Maintenance Superintendent or Assistant Public Works Director or Public Works Director for all spills to creeks.
 5. Possible Pumping Station Overflow: Lines-Maintenance Technician reports back to the Superintendent the status of the overflow (i.e., confirmed or unconfirmed, contained vs. discharge to surface water). If overflow is confirmed, the Lines-Maintenance Superintendent or designee shall assess the significance of the overflow. Initial telephone notification to regulatory agencies (i.e., MSDEQ) is made by the Lines-Maintenance Superintendent or Assistant Public Works Director or Public Works Director for all spills to creeks. Chief Utility Plant Operator is notified for purposes of initiating sampling plan.
- Lines-Maintenance Superintendent completes Wastewater Bypass/Overflow Report Form. Wastewater Bypass/Overflow Report Form is filed with the MSDEQ and EPA within five days of confirmation of the spill.

Notifications Regarding Pump Stations during After-Hours, Holidays, and Weekends:

Should an emergency situation arise at a pumping station and the immediate contact of the on call Lines-Maintenance Technician or Lines-Maintenance Superintendent is not successful, the City staff member handling the emergency call shall, upon confirmation, take action to contain the overflow until they reach proper management staff no matter what time of day or night that an emergency may arise. The City staff member shall then first attempt to reach the Assistant Public Works Director and then the Public Works Director.

3.2 DISPATCH OF CREWS TO SITE OF SEWER OVERFLOW

The purpose of immediate response to a failure of any element within the wastewater collection and pumping station systems, which threatens to cause or causes a sewage overflow, is to isolate and correct the problem as quickly as possible. Crews and equipment shall be made available to respond to any actual sewage overflow location. Also, additional maintenance personnel, materials and equipment shall be called in if extra resources are needed. Figure 1 summarizes the Sewer Overflow Action Plan.

1) Dispatching Crews

- Lines-Maintenance Department shall receive notification of possible sewage spills as outlined in Section 3.1 "Receipt of Information regarding a Sewer Overflow or Pumping Station Overflow" and dispatch the request for service to Crew Supervisor or to a Pumping Station Technician.
- Upon confirmation of a reported sewage overflow, the Crew Supervisor or Technician shall directly call for support or request the Communication Center to call additional crews and resources.

2) Crew Instruction and Work Orders

- Responding crews shall be dispatched by mobile radio or telephone, and shall receive instructions from the Lines-Maintenance Superintendent or on-site Crew Supervisor regarding appropriate crews, materials, supplies and/or equipment to be deployed.
- The Lines Maintenance Division's Senior Secretary/Office Manager or designee communicating with crews shall ensure that all communication with crew has been received and acknowledged by the responding crews. To avoid delay, all standard communications procedures shall be followed. All employees dispatched to the site of a sewage overflow shall proceed immediately to that site. Any delays or conflicts in assignments must be immediately reported to the appropriate Supervisor or designee for resolution.
- Responding crews shall report their findings, including damage to private and public property/ to their Supervisor or designee as frequently as necessary to keep him/her abreast of the conditions found.

3) Preliminary Assessment of Damage to Private Property

- The objective is resolution of the immediate cause of the overflow. The responding crew shall use discretion in providing assistance to a property owner/occupant who has sustained property damage. Be aware that the City could face increased liability for any further damages caused to private property during such assistance. The responding crew should not enter private property for purposes of assessing damage unless directed otherwise by the Public Works Director or Assistant Public Works Director. Appropriate still photographs and video footage, if possible, should be taken of the impacted outdoor area of the sewer overflow in order to thoroughly document the nature and extent of damage. Copies of photographs, negatives or videotapes shall be forwarded to the City's designee for filing with a copy of the Spill Report or Spill to Dry Land Report/ as appropriate.

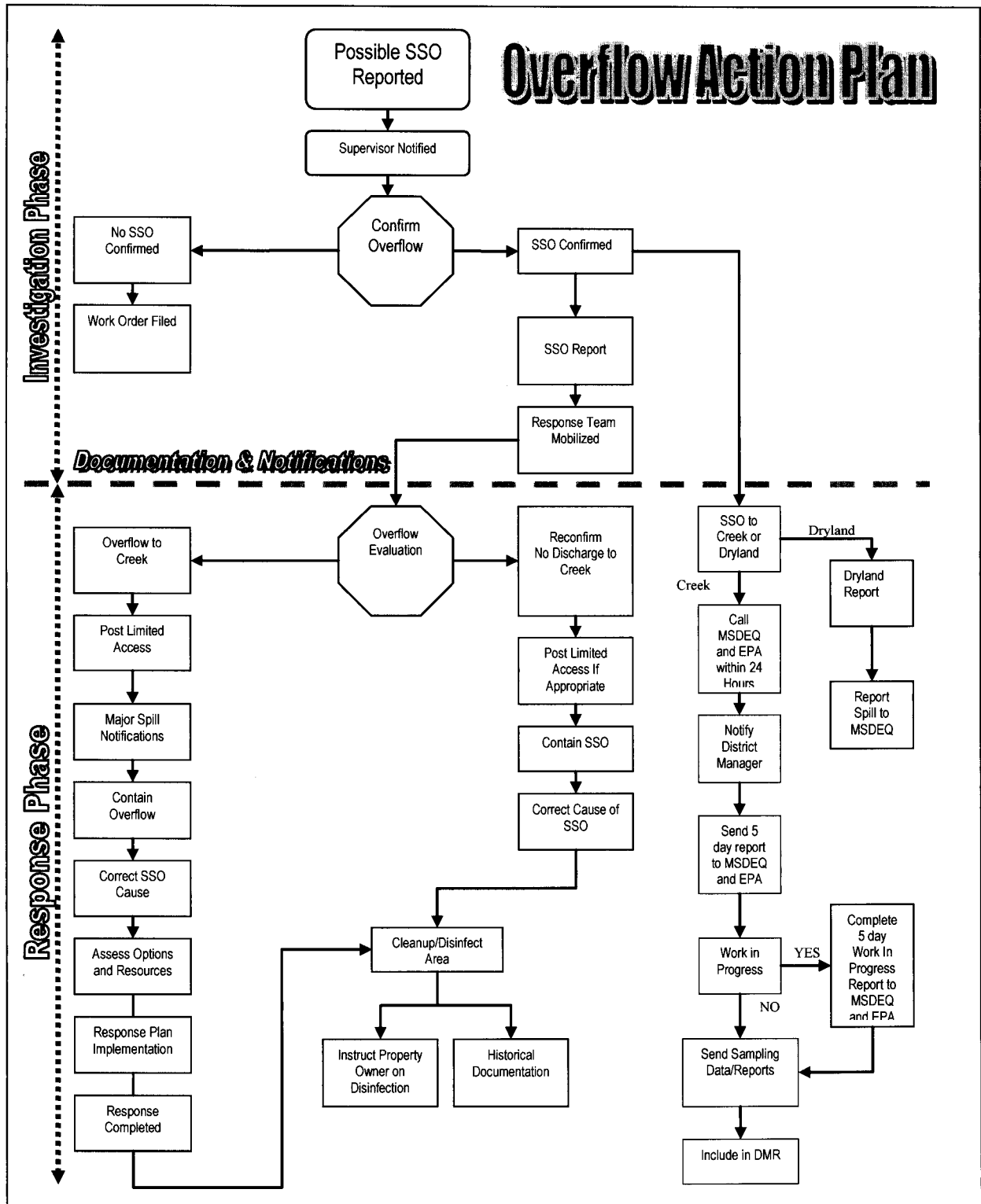
4) Field Supervision and Inspection

- The Lines-Maintenance Superintendent or designee of Public Works Director shall visit the site of the overflow to assure that provisions of this overflow response plan and other directives are met.
- The Lines-Maintenance Superintendent is responsible for completion of the spill report and for confirming that the spill report is reported to the correct regulatory agencies. In the case of a pumping station overflow to a creek or dry land, the Lines-Maintenance Superintendent or his designee shall be responsible for completing the Spill in Creek Report or the Spill to Dry Land Report, as appropriate, and informing the City's management staff and regulatory agencies, as appropriate.

5) Coordination with Hazardous Material Response

- The investigating Pumping Station Technician or other responding employee shall contact her/his supervisor as soon as possible whenever a suspicious substance (e.g., oil sheen, foamy residue) is found on the ground surface, surface waters or ponded areas, or upon detection of a suspicious odor (e.g., gasoline) not common to the sewer system.
- Should the Public Works Director or his designee decide it is necessary to alert the Mississippi Emergency Management response team (HAZ-MAT) in consultation with the local Fire Department, the responding crew shall wait on the arrival of the hazardous material response team to take over command of the incident. Remember that any vehicle engine, portable pump or open flame (e.g./ cigarette lighter) can ignite an explosion or fire where flammable fluids or vapors are present. Keep a safe distance and observe with caution until assistance arrives. The on-site staff shall also take measures to keep the general public away from the impacted area. Perimeter control of pedestrian and vehicular traffic shall be established.
- Upon arrival of the hazardous material response team, the responding crew shall take direction from the lead person with that team. Only when that authority determines it is safe and appropriate for the responding crew to proceed under the ERP with the sewer overflow containment, correction and clean-up activities, can they then proceed.

Figure 1



3.3 OVERFLOW CORRECTION, CONTAINMENT, AND CLEANUP

Spills and bypasses may result from blocked sewers, pipe failures, power outages or mechanical malfunctions among other natural and manmade causes. The City staff is on alert and shall respond immediately upon receipt of notification of a possible overflow. This section describes specific actions to be performed by the responding crews during a sewer overflow or pumping station overflow. The objectives of these actions are:

- To protect public health, environment and property from sewage spills and restore the surrounding area back to normal as soon as possible.
- To establish perimeters and control zones with appropriate traffic cones and barricades, vehicles or use of natural topography (e.g., hills).
- To promptly notify regulatory agency's communication center of preliminary spill information and potential impacts.
- To contain the sewer overflow to the maximum extent possible including preventing the discharge of sewage into surface waters.
- To minimize the City exposure to any regulatory agency penalties and fines.
- Under most circumstances, the Department will handle response activities with its own work forces. The City possesses the skills and experience to respond rapidly and in the most appropriate manner. An important issue with respect to an emergency response is to ensure that temporary actions necessary to divert flows and repair the problem do not produce problems elsewhere in the system. For example, the repair of a force main requires the shutdown of the pump station and diversion of the flow at an upstream location. If the closure is not handled properly, a backup of sewage may create other spills. Circumstances may arise when the City requires the support of an outside construction contractor. This may occur when a deep pipe requires an emergency repair in order to resolve the overflow and extensive shoring is necessary.

3.3.1 RESPONSIBILITIES OF SUPERVISOR UPON ARRIVAL

It is the responsibility of the first employee, who arrives at the site of a sewage overflow or pumping station overflow, to protect the health and safety of the public by mitigating the impact of the overflow to the highest extent possible. The City shall take responsible actions to protect public health and water quality where deficiencies in management, operation or maintenance, or inadequate main line capacity causes stoppages and backups into buildings, or overflows from private laterals. However, should the cause of the overflow not be the responsibility of the City, e.g., an overflowing private sanitary sewer, but there is imminent danger to public health, public or private property, or to the quality of waters of the State, then prudent emergency action shall be taken until the responsible party assumes responsibility and provides appropriate action. Upon arrival at an overflow the Supervisor or responding persons shall do the following:

- Determine the cause of the overflow, e.g. sewer line blockage, sewer line break, pump station mechanical or electrical failure, or inadequate capacity, etc.
- Identify and request, if necessary, assistance or additional resources to correct the overflow or to assist in the determination of its cause.
- Take immediate steps to stop the overflow, e.g. relieve pipeline blockage, manually operate pump station controls, use portable bypass pump, repair pipe, etc. Extraordinary steps may be considered where overflows from private property threaten public health and safety (e.g., an overflow running off of private property into the public right-of-way).

- Extra care should be taken in securing the work site immediately adjacent to or around private property.
- Request additional personnel, materials, supplies or equipment that will expedite and minimize the impact of the overflow.
- Record information required for reporting.

3.3.2 RESPONSE TO PUMP STATION FAILURE

The Pumping Station Emergency Procedures details the procedure to be followed by all pumping station personnel whenever a station is found not pumping, either due to a call or while the technician is on rounds. The same procedure is followed to repair a station to prevent a possible spill as well as to stop a spill.

1) The procedure contains the following steps:

- Switch to backup pump.
- If the backup will not operate:
 - Check electrical power, replace fuses or reset breakers - if still no power:
 - Call electrical power company:
 - connect portable lift station pump
- If power is available, but pump does not operate, check and clean floats.
- Operate pump by manual controls (Note: Caution shall be observed under manual operation so as not to cause an overflow or intensify an ongoing overflow.)
- Notify appropriate officials (ie, Lines-maintenance Superintendant, Assistant Public works Director, and Public Works Director).

2) Initial Measures for Containment

Initiate measures to contain the overflowing sewage where possible. In regards to sewage that has already spilled, minimizing the impact to public health or the environment.

- Determine the immediate destination of the overflow, e.g. storm drain, surface water, ground surfaces, structure, etc.
- Identify and request the necessary materials and equipment to contain or isolate the overflow, if not readily available.
- Take immediate steps to contain the overflow, e.g., block or bag storm drains, recover through vacuum truck, divert into downstream sanitary/combined sewer manhole, etc.

3) Additional Measures for Prolonged Overflow Conditions

In the event of a prolonged sewer line blockage or collapse, or pumping station outage, a determination shall be made in a timely fashion to operate a portable pumping station to direct flows around the defective or damaged area. Personnel shall be trained in proper portable pump capacity selection and the setup of temporary suction and discharge piping to assure safe and reliable emergency operation. When appropriate, other methods of bypassing such as fluming and berming shall be utilized to contain flows while repairs are made.

- Appropriate measures shall be taken to determine the proper size and number of portable pumps required to effectively handle the sewage bypass pumping operation. Continuous or periodic monitoring of the bypass pumping operation shall be implemented as required.

- Any regulatory agency issues that arise as a result of a prolonged bypass pumping situation (e.g., need for redundancy of portable pumping) shall be addressed in conjunction with emergency repairs.

4) Cleanup and Disinfection

- Sewer overflow sites including contaminated soil, stream and riverbanks, and shorelines of other types of bodies of water, shall be thoroughly cleaned after an overflow. No readily identifiable residues (e.g., fecal matter, rags, papers, or plastics) shall remain.
- When practical, the area shall be thoroughly flushed with the wash-down water being contained and properly disposed. Heavy flushing could make containment of wash down water impractical or not possible. Solids and other debris shall be flushed, swept, raked, picked-up and transported to proper disposal area.
- The overflow site shall be secured to prevent contact by the public until the site has been thoroughly cleaned. Posting, if required, shall be undertaken.
- Where appropriate, the overflow site shall be disinfected and deodorized.
- Where sewage has resulted in ponding, the pond shall be pumped into a manhole if possible. If this is not possible or practical, the pond shall be vacuumed and transported by Vac-truck to the Wastewater Treatment Plant. Solids and other associated debris shall be flushed, raked, picked-up, and removed from the site and properly disposed. The contaminated soil shall be treated with lime broadcasted over the area at a rate equivalent to 100 pounds per 1,000 square feet.

5) Spillage in Creek or Spillage to Dry Land Report

A Spillage Report form shall be completed by the Lines-Maintenance Superintendent. MSDEQ should be notified by phone, as specified in Section 6.0, immediately following confirmation of a spill into a waterway/dryland, but no later than 24 hours after confirmation. If navigatable waters are impacted by the spill, the USEPA should be notified according to section IV of the "Bypass and Sanitary Sewer Overflow (SSO) Reporting and Follow-Up Procedure Policy". A hard copy report for a spill to surface waters is forwarded to MSDEQ when repair work on the sewer is completed, but no later than five days after confirmation of a spill. Information recorded for sewage overflows should include the following:

- Indication of whether there was an actual observation of sewage overflow or pumping station overflow running into surface waters, or whether there was only an indication (e.g. sewage residue on the ground surface leading to the surface water) that sewage had possibly flowed to surface waters but was not actually observed.
- Indication that the sewage overflow had not reached surface waters. Guidance in characterizing these overflows as dryland overflow only includes:
 - a. Sewage spills to underground storm drains (with no public access) where a Maintenance Crew verifies, by inspection, that the entire volume is contained in an impoundment and where complete cleanup occurs, leaving no residue.
 - b. Spills where observation or on-site evidence clearly indicates all sewage was retained on land and did not reach surface water and where complete cleanup occurs leaving no residue.
 - c. Spills which enter or re-enter a combined sewer. Pre-planned or emergency maintenance on a sewer or pumping station undertaken in conjunction with the use of a temporary earthen channel or trench shall

only be used provided public access is restricted and subsequent complete cleanup occurs. Such procedures will be treated as a dry land overflow including regulatory reporting.

A determination of the start time of the sewer overflow using one or more of the following methods:

- a. Date and time report of an overflow was received by the Communication Center Customer Service representative.
- b. Date and time of a visual observation by a City employee.
- c. Pumping station flow charts and other recorded data.

A determination of the stop time of the sewer overflow is determined by using the following method:

- a. When the blockage is cleared or flow is controlled or contained
- b. Visual observations.
- c. An estimation of the rate of sewer overflow or pumping station overflow in gallons per minute (GPM) by direct observation of the overflow.

A determination of the volume or rate of the sewer overflow or pumping station overflow:

- a. When the rate of sewer overflow or pumping station overflow is known; multiply the duration by the rate of flow to determine the volume of the overflow.
- b. When the rate of overflow is not known, investigate the surrounding area for evidence of ponding, obtain dimensions of ponding and calculate volume in gallons. Total volume divided by the appropriate time interval will provide a flow rate.

Photographs should be taken of the event when possible. An assessment of any damage to public and private property should be conducted. Only the Risk Manager or Assistant Public Works Director or personnel designated by the Public works Director shall enter private property for purposes of estimating damage to structures, floor and wall coverings, and personal property.

6) Customer Satisfaction

The Lines-Maintenance Superintendant or Assistant Public Works Director or Public Works Director shall make follow-up contact with the customer(s) summarizing the actions taken: to resolve the overflow, to clean up the area, and to post and barricade the area if necessary.

4.0 MONITORING/SAMPLING OF SURFACE WATERS AFFECTED BY SEWER SPILLS

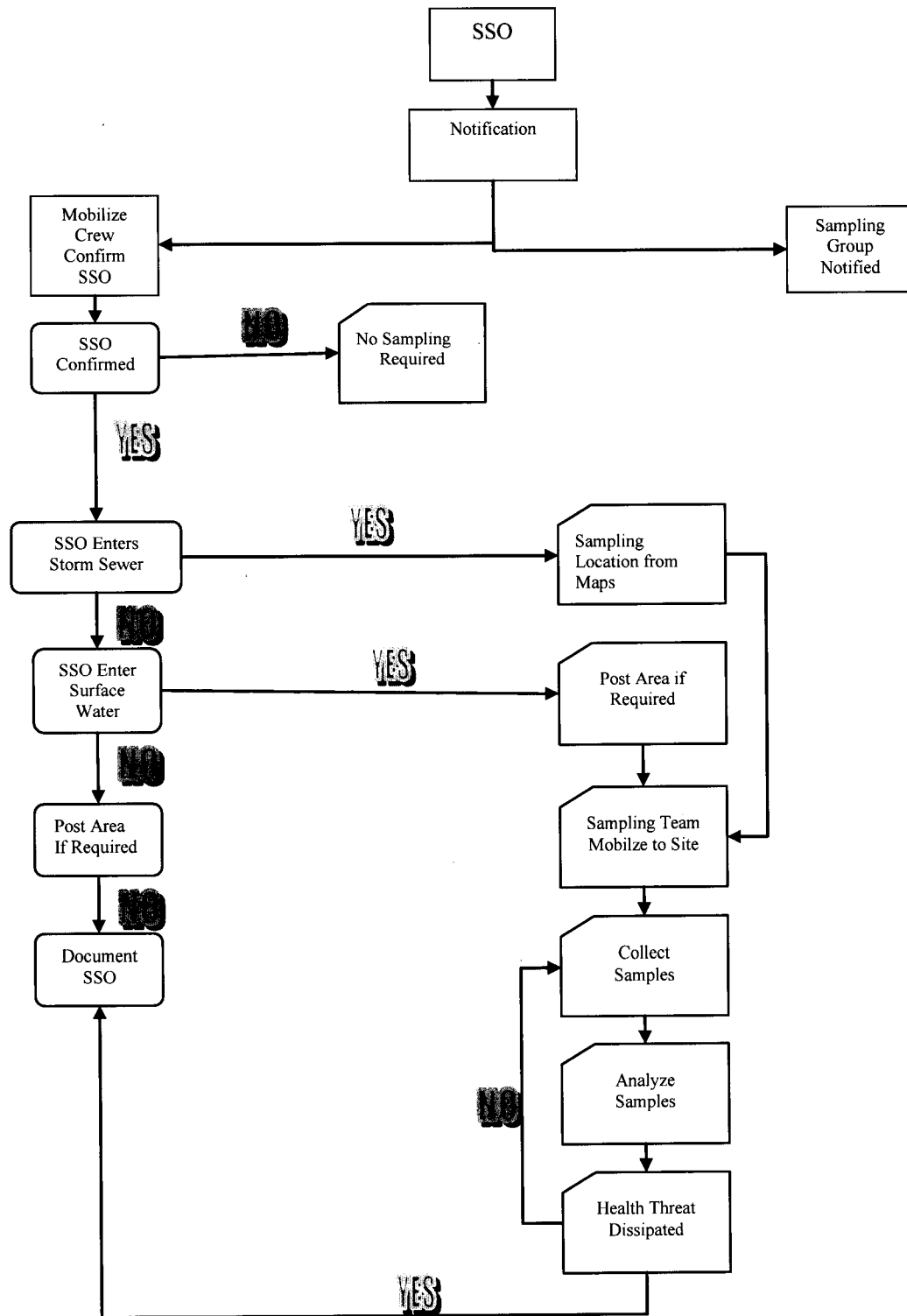
4.1 GENERAL PROCEDURES

The City of Meridian will monitor and sample surface waters affected by sewer spills. Once reported, personnel from the City will respond to the location of the spill. These personnel will take the following steps, immediately after initiating efforts to stop the overflow:

- Stop spill and determine volume of spill (i.e. total gallons).
- Determine if spill goes to a stream or receiving water.
- Notify sampling team, if appropriate.
- Post signs for restricting public access.

Requests for sampling during spills shall be initiated by the Lines-Maintenance Superintendent. During normal business hours the Chief Utility Plant Operator shall be contacted to initiate sampling actions due to spills. During after hours, weekends or holidays, the laboratory staff maybe contacted directly at the South Wastewater Treatment Plant the phone number is (601)485-1815. Home telephone and cell numbers should only be called during major spill events or if contact has not been established after exhausting the list of business phone numbers. The Chief Utility Plant Operator is responsible to see that Bacteriologist is contacted in the case of any spill where sampling is required during normal business hours. Sampling request shall be made by contacting the treatment plant at (601) 485-1815.

Figure 2 - Sampling Activity
Flow Chart



5.0 PUBLIC ADVISORY PROCEDURE

This section describes the actions the City shall take, in cooperation with MSDEQ and U.S. EPA and Lauderdale County Health Departments, to protect the public and limit public access to areas potentially impacted by un-permitted discharges to surface water. Actions to limit public access to areas impacted by sewer overflows and pumping station overflows which do not reach surface water, but affect ground surfaces structures or other resources are also addressed. Public notices shall be submitted to MSDEQ by the 15th of the next month following the date of publication.

5.1 POSTING AND SIGNAGE

The City has primary responsibility for determining whether signage is necessary for areas affected by sewer overflows and pumping station overflows to ground surfaces, structures or surface waters. The main factor in determining when and where to post signs is the degree of public access to any residue of the overflow that may remain at the site. The posting of signage would not necessarily prohibit use or access to the area unless stated otherwise, but provide a temporary warning of potential public health risks due to a recent sewage contamination. The City may elect to use such signs, for example, where heavy flushing made it impractical to recover all of the wash-down water commingled with sewage. In cases when posting of signs is not sufficient or not feasible, door hangers may be used instead of, or in addition to, signs. The Public Works Director or his designee in consultation and cooperation with the Department of Environmental Quality, when appropriate, shall make this decision. All spills entering waters must be posted with signage for at least seven days. Table 2 outlines the posting decision process for City personnel. The Department of Environmental Quality shall be consulted with during the posting decision process

5.2 OTHER PUBLIC NOTIFICATION

Should it be determined that the posting of signs indicating that surface waters, ground surfaces or structures have been subject to a sewer overflow are not sufficient, the Public Works Director shall determine the need for further public notification. This additional notification will be accomplished through notices made available to the print or electronic news media for immediate publication or airing, or by other measures (e.g., front door hangers). Circumstances under which further public notification may be considered include:

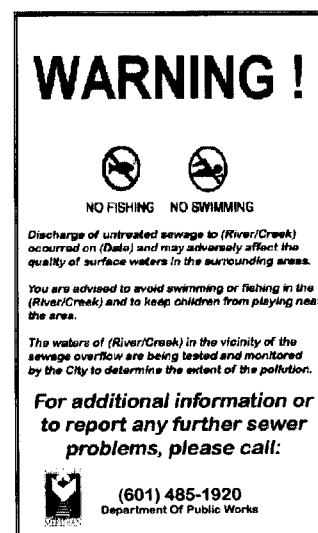
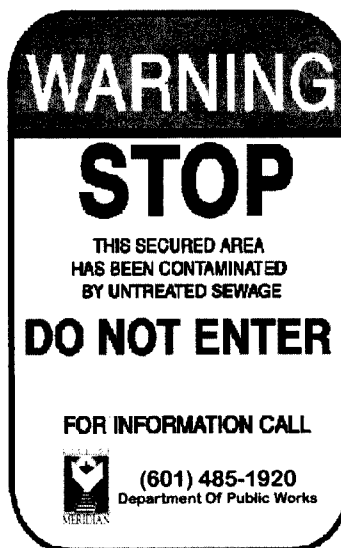
- When permanent repairs to resolve an overflow condition will take in excess of 24-48 hours and the reduction in the usage of water in homes and businesses would assist in managing the operation of the locally affected sewer or pumping station;
- When permanent repairs to resolve an overflow condition will take in excess of 24-48 hours and the citizenry need to be advised of repair schedules and possible traffic detours in the vicinity of the repairs and/or sewer or pumping station pump-around operations;
- When permanent repairs to resolve an overflow condition which took in excess of 24-48 hours are completed and the City wishes to recap the episode such as the circumstance(s) contributing to the cause of the overflow, measures taken to repair and cleanup the affected area, time required to effect repairs, total gallon age of the overflow, and any continuing monitoring of surface waters/ if applicable; and,

- When posting of waterways and ground surfaces affected by overflows cannot be effectively accomplished to adequately protect public health and safety (e.g., receiving water is bordered by private property).

Table 2
SANITARY SEWER OVERFLOW (SSO)
POSTING DECISION PROCESS

Step Event/Action

1. Responding Lines Maintenance Superintendant or Crew Supervisor confirms reported SSO.
2. The Public Works Director makes decision on intent to either post or not to post, or intent to use other public notification measures (e.g. front door hangers), depending on the degree of the public's accessibility of the area impacted by the spill.
3. Lines-Maintenance Superintendent or designee of the Public Works Director calls the Department of Environmental Quality for consultation on posting decision. If the department contact is unavailable, a verbal message as to the City's intent is provided.
4. The Lines-Maintenance Superintendent is advised of the final posting decision by the Public Works Director or designee.
5. If the Public Works Director's decision not to post or use other public notification measures is subsequently reversed by the Department of Environmental Quality, the Public Works Director or his designee will be responsible for posting or using other public notification measures.
6. The Public Works Director notifies the Department of Environmental Quality before any signage or other public notification measures are removed. Locations of spills to waters must be posted for a minimum of seven days.
7. Lines-Maintenance Superintendent will note in the "comments" portion of the Work Order Form the basis for deciding to post or not post the receiving waters (e.g., limited public accessibility or area impacted by spill, adequate washdown and recovery of washdown water affected). Work Order Form is maintained with the corresponding spill file.



6.0 REGULATORY AGENCY NOTIFICATION PLAN

Agency notifications shall be performed in parallel with other City internal notifications. The procedures for providing notification to the media of a sewer overflow are presented in Section 7.0. Internal notification and mobilization of personnel are detailed in Section 3.0 – Overflow Response Procedure.

Using data supplied from the confirmation of reported possible overflows and subsequent updates from response personnel, the superintendant shall prepare initial and updated Spillage in Creek and Spillage to Dry Land Report forms. The superintendant shall orally, by phone or on person, notify MSDEQ and the appropriate county health department within 24 hours of all spillage to creeks and other waters (Unpermitted Discharges).

Written notification shall be given to MSDEQ and/or EPA by a "hard copy" version of the Spillage Report (not a fax) within five (5) days from the time the City confirms an Unpermitted Discharge. The Lines-Maintenance Superintendent or Public Works Director's designee shall submit written status reports to MSDEQ every five days until the overflow is corrected for overflows that require more than 24 hours to correct. Certified mail shall be used to transmit all written reports.

7.0 MEDIA NOTIFICATION PROCEDURES

When an overflow to surface water (Unpermitted Discharge) has been confirmed, the following actions shall be taken if it is necessary to notify the media:

- a. The Crew Supervisor or any employee who verifies an overflow shall contact the Lines-Maintenance Superintendent or appropriate personnel.
- b. The Superintendent or her/his designee shall provide the Public Works Director with pertinent information about the spill and direction for notification to the general public and media.
- c. The Director shall be the "first-line" of response to the media for any confirmed overflow.
- d. Calls received by the Communication Center from the media at any time are referred to the Public Works Director or his/her designee.
- e. Only the Public Works Director or her/his designee is authorized to be interviewed by the media. All others are required to have authorization from the Public Works Director authorizing media interviews.

8.0 DISTRIBUTION AND MAINTENANCE OF ERP

The ERP reflects the procedures established for responding to reports of possible sewer overflows and confirmed overflows from the wastewater collection system and pumping station system so as to:

- Minimize the adverse effects of sewer overflows on public health, water quality and beneficial uses of the receiving waters.
- Minimize the sewer overflow volume which enters surface waters.
- Updates of the ERP shall be made to reflect all changes in City and regulatory policies and procedures as may be required to achieve its objectives.

8.1 SUBMITTAL AND AVAILABILITY OF ERP

Copies of the ERP and any amendments shall be distributed to the following offices, departments, bureaus, divisions, sections and functional positions:

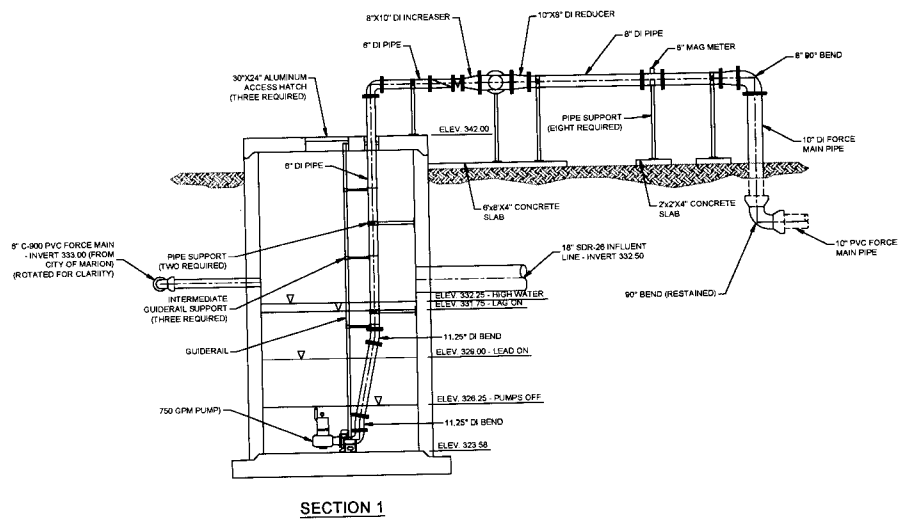
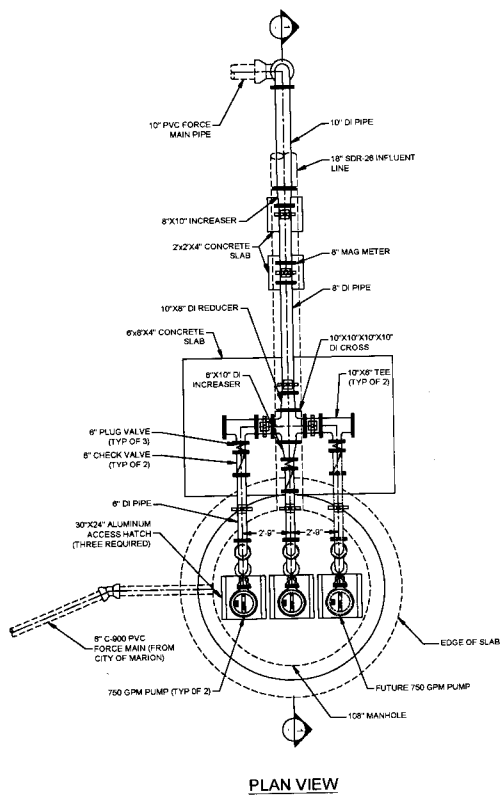
- Supervisors in the Division of Lines-Maintenance
- Executive Management Staff when appropriate; and,
- Director and Assistant Director in Public Works Department.

All other City staff who may become incidentally involved in responding to collection system and pumping station overflows shall be generally familiar with the contents of the ERP.

8.2 REVIEW AND UPDATE OF ERP

The ERP shall be reviewed and amended as appropriate. At a minimum the City of Meridian shall:

- Conduct annual reviews of the ERP and update it with the issuance of a revised or new NPDES permit.
- Review and update, as needed, the various contact person lists included in the ERP.



PLAN VIEW AND SECTION

SCALE: $3/8" = 1'-0"$

DATE:
JULY 2014

PRELIMINARY



EAST MERIDIAN PUMP STATION
PUMP STATION DETAILS
MERIDIAN, MISSISSIPPI

DRAWING
M-1

MERIDIAN

CITY OF MERIDIAN

July 18, 2014

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2014 JUL 29 16:08 CWF

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FAX: (601) 484-6832

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FAX: (601) 485-1864

Sara Schiff, Enforcement Officer
U.S. Environmental Protection Agency, Region 4
Clean Water Enforcement Branch
61 Forsyth Street, S.W.
Atlanta, Georgia, 30303-8960

Subject: U.S. Environmental Protection Agency and Mississippi
Department of Environmental Quality Compliance Evaluation
Inspection
NPDES Permit Nos. MS0020117 and MS0055735
Meridian South POTW and Meridian East POTW
Response to Notice of Violation and Information Request and
Supplemental Information Request

Dear Ms. Schiff:

The City of Meridian (City) is responding to U.S. Environmental Protection Agency's Clean Water Act Section 308 Notice of Violation and Information Requests, dated May 6, 2014 and June 25, 2014, regarding the City's South Wastewater Treatment Plant (WWTP) and the City's East WWTP. Responses to the individual questions in the Information Requests are provided below. In some cases, the requested information is described within this letter with supplemental data included as a separate appendix to this letter. We appreciate the opportunity to respond to your concerns.

Provide the date and street address for the work orders provided to the EPA during the Compliance Evaluation Inspection from January 2011 to Present

The complete work order database from January 2011 to May 6, 2014 is included on the enclosed disc as **Appendix A**. The information includes the date and street address for each work order.

What does the "Line Numb" column represent in the spreadsheet submitted to the EPA during the CEI?

The following language is a summary of response email sent from City of Meridian's IT Department on 4/29/2014: The "Line Numb" column is the verification code to locate requests that are made to MS 811 (the statewide utility location service). For example, a line number of 14042508510158 would be broken down as follows: the first six numbers represent the date (140425= April 25, 2014), the next four numbers represent the time the request was made (0851=08:51 a.m.), and the last four numbers represent the actual request number of the day (0158=158). Locate requests are always entered into the system, along with a follow-up work order, to the address to

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which the request pertains. The follow-up work order usually contains the finalized summary of the work done, the materials used and total time required to complete the job.

Provide a listing of all SSOs that occurred from September 2008 to the present.

A substantially complete listing of all SSOs that occurred from September 2008 through May 6, 2014 is included on the enclosed disc as **Appendix B**. During the compilation of this information, inconsistencies were identified between the City's SSO list, the Mississippi Department of Environmental Quality's (MDEQ) SSO list, and the SSO Reporting Forms provided to MDEQ. In an effort to ensure that the information provided is as complete and accurate as possible, the City is working diligently reconcile these inconsistencies. Pending a conversation with MDEQ officials, the City is committed to providing a further revised listing of all SSOs to the EPA by July 31, 2014. The City's Sewer Overflow Response Plan (SORP) is included on the enclosed disc as part of **Appendix B**.

The following questions and/or requests for information were submitted to the City of Meridian in EPA's Request for Supplemental Information letter:

Please provide a description of the proposed pump station project to divert flow from the City's sewer to the East WWTP:

CDM Smith has been retained to provide design services for the East Meridian Pump Station. The new station will collect the wastewater flow contributed by the Marion community and convey the wastewater via force main to the East WWTP. The new pump station will be designed as a precast duplex station with a firm capacity of 750 gpm. The station will have a slot for a future pump to receive flow from North Meridian and provide future flexibility. If the capacity of the station was to be exceeded, or there was a pump or power failure at the station, the design will allow wastewater flow to continue down the existing sewer line to the South WWTP. Additionally, the station will be designed to allow the capacity of the station to be increased to 1,400 gpm in the future by installing a parallel force main. The station shall be controlled by float switches and will communicate with the East WWTP's SCADA system via radio. The final plans and specifications are expected to be completed by the end of August 2014. City personnel will be constructing the pump station with an expected completion date of June 1, 2015. The estimated construction cost for the project is approximately \$250,000. A preliminary site plan, mechanical plan and section of the pump station are included on the enclosed disc as **Appendix C**.

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Please provide flow monitoring data relating to the East Meridian Pump Station design:

The pertinent flow monitoring data is included on the enclosed disc as **Appendix D**.

Please provide a list of any currently proposed or contractor requested sewer expansion projects:

There are currently no proposed or contractor requested sewer expansion projects.

Please provide a list of any currently proposed or planned pump station projects other than the East Meridian Pump Station:

There are currently no proposed or planned pump station projects other than the East Meridian pump station.

Please provide a narrative description relating to the Phase 1 and Phase 2 South WWTP rehabilitation projects:

The City initiated improvements to the South WWTP using a phased approach beginning in 2008 with rehabilitation to the WWTP's headworks. Phase 1 of the project included installation of a new mechanical bar screen upstream of the screw pumps, installation of two (2) new 6mm fine screens each with a washer/compactor downstream of the screw pumps, and modifications to the grit removal/cleaning system at the aerated grit basin including installation of a new screw conveyor, two (2) grit pumps, one (1) grit washer with conveyor/dewatering, one 48-inch diameter manhole, and refurbishing of existing swing air diffuser piping. During construction, the WWTP's existing headworks equipment including the mechanically cleaned bar screen, two (2) existing fine screens, screw conveyor and bucket conveyor with associated washer/conveyor was demolished. The project also included minor structural and electrical modifications within the headworks and other work incidental to the project.

The second phase of the rehabilitation to the South WWTP (*Process Mechanical and Electrical Upgrades*) is scheduled to advertise for bid on August 12, 2014 and August 19, 2014, as required by Public Bid Law, with bids to be opened September 12, 2014. The estimated construction cost for the project is approximately \$6,000,000. This project is funded by the Mississippi Department of Environmental Quality's (MDEQ) Water Pollution Control (Clean Water) Revolving Loan Fund (WPCRLF). The project includes the following items of work:

- Replacement or rebuilding of all existing process mechanical pumps located on the 4 MGD and 9 MGD trains. EPA's Inspection Report dated April 18, 2014 refers to these as the "old side" and "new side", respectively. Specifically this work includes the following:

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- Installation of new primary sludge and waste activated sludge (WAS) pumps and controls on 9 MGD train, installation of new primary sludge, return activated sludge (RAS), and WAS pumps and controls on 4 MGD train.
- Installation of two (2) new RAS pumps and rebuilding of all 24 existing RAS pumps with new controls on the 9 MGD train.
- Modification and replacement of existing sludge piping, valves, flow meters, and appurtenances to repair leaks and improve the transport of sludge throughout the WWTP.
- Modifications to the Blower Building including the installation of two (2) new blowers, air piping, piping components and a dissolved oxygen (DO) control system.
- Replacement of the aeration header piping on the 9 MGD train.
- Modifications to the digesters including the installation of one (1) new blower, replacement air piping, valves and appurtenances within the Digester Building and replacement of the coarse bubble diffuser system within the digesters. Modifications also include cleaning of both digesters prior to replacement of the diffuser system.
- Modifications to the Non-Potable Water (NPW) Pump Room including installation of hydro-pneumatic booster pumping system.
- Modifications and upgrades to the WWTP's electrical equipment including the addition of two (2) new emergency generators and new LED site lighting.

Please provide a copy of the 2007 sewer assessment/sewer survey report/documents:

The 2010 Wastewater Collection System Rehabilitation Program Final Report by Carollo Engineers is included on the enclosed disc as **Appendix E**.

Please provide the most recent NPDES permit application submitted to MDEQ regarding the consolidation of the East and South WWTPs:

The permit application and NPDES permit is included on the enclosed disc as **Appendix F**.

Please provide a narrative description discussing the actions taken, or to be taken by the City to address the effluent limit exceedances contained in Enclosure B to the EPA's May 6, 2014 correspondence:

The Phase 2 South WWTP project, *Process Mechanical and Electrical Upgrades*, is expected to address particular effluent limit exceedances including ammonia, dissolved oxygen (DO), and 5-day BOD through the

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installation of new blowers, air piping improvements and sludge piping improvements, which should allow the biological treatment portion of the WWTP to nitrify the wastewater as designed for ammonia removal. The Phase 2 electrical improvements and installation of emergency generators will allow the WWTP to continue biological treatment of wastewater during power outages thus minimizing effluent limit exceedances in those circumstances.

All but one of the effluent limit exceedances by the East WWTP-MS0055735 were addressed by covering the plant's equalization basin with a modular insulated cover. This cover prevented algae growth in the equalization basin which was determined to be the cause of most of the plant's effluent limit exceedance. The effluent limit exceedance on lead has not reoccurred.

Please provide a narrative description of actions taken or to be taken to address each of the concerns contained in the EPA's Inspection Report dated April 18, 2014:

In addition to addressing effluent limit exceedances as described above, the Phase 2 South WWTP project, *Process Mechanical and Electrical Upgrades*, should address particular concerns contained in EPA's Inspection Report dated April 18, 2014. For example, the installation of new blowers, air piping improvements and sludge piping improvements will eliminate leaks in the RAS piping and allow the WWTP to operate at higher mixed liquor suspended solids (MLSS) concentrations if required to improve biological treatment.

With respect to SSOs, the City intends to perform rehabilitation work on the trunk line where many SSOs occur. Additionally, the East Meridian Pump Station, which is currently being designed, will further reduce SSOs once construction is complete.

The City also plans to implement a comprehensive Fats, Oil and Grease (FOG) Control program along with a CCTV inspection program. Furthermore, the City plans to update the Work Order program and the City will also update the Asset Management program. All of these items are steps towards completion of a Capacity, Management, Operation, and Maintenance (CMOM) Assessment.

For any SSOs included in the SSO list provided to the EPA by the City of June 17, 2014, which have not been reported to MDEQ, please provide an explanation for why each such SSO has not been reported to MDEQ:

As previously discussed, the City is compiling a list of SSOs along with the specific requested information related to each event as outlined in the EPA information request. A preliminary list of this information is included with this letter; however, the final listing of all SSOs will be provided at the earliest possible date but no later than July 31, 2014.

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We appreciate the additional time that EPA has provided in responding to your information request. On behalf of the City, I commit the full cooperation of city resources to address your questions and to address the concerns that have been expressed as related to the performance of the City's wastewater system.

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FAX: (601) 485-1911

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Ward 5

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Percy Bland
Mayor

City of Meridian, Mississippi

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cc: Mississippi Department of Environmental Quality
Hugh Smith, Jr., City of Meridian
Michael D. Goggans, The Goggans Law Firm, PLLC

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Wastewater Collection System Rehabilitaion Program Final Report

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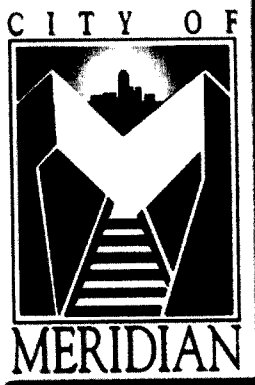
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City of Meridian Department of Public Works

Wastewater Collection System Rehabilitation Program

**WASTEWATER COLLECTION SYSTEM REHABILITATION PROGRAM
FINAL REPORT**

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APPENDIX B	Original Pump Station Inventory From Meridian
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APPENDIX D	Detailed Results of Model Simulation Runs
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APPENDIX F	Wastewater Collection System Rehabilitation Program

ATTACHMENTS

Attachment A1: Sanitary Sewer System Evaluation (Basins 5, 17 & 30) Final Report Vol. 1
Attachment A2: Sanitary Sewer System Evaluation (Basins 5, 17 & 30) Final Report Vol. 2
Attachment B: Wastewater Collection System Operation Review Final Report

ABBREVIATIONS

BWF — Base weather flow

CCTV — Cleaning and utilizing Closed-Circuit Television

CIPP — Cured in place pipe

d/D — Depth over diameter

DWF — Dry weather flow

EPA — Environmental Protection Agency

EX — Existing

FM — Flow meter

FOG — Fats, oils, and grease

fps — Feet per second

FUT — Future

GIS — Geographic Information System

GLUMRB — Great Lakes Upper Mississippi River Board

gpcd — Gallons per capita per day

gpd — Gallons per day

GPS — Global Positioning System

GWI — Groundwater Infiltration

HGL — Hydraulic grade line

HP — Horsepower

I/I — Inflow and infiltration

MDEQ — Mississippi Department of Environmental Quality

MSDS — Material Safety Data Sheet

PA — Pipeline Analysis, LLC

PACP — Pipeline Assessment Certification Program

PF — Peaking factor

Program — Wastewater Collection System Rehabilitation Program

PS — Pump Station

PVC — Polyvinyl Chloride

RDII — Rainfall Dependent Inflow and Infiltration

SDR — Standard Dimension Ratio

SSES — Sewer System Evaluation Survey

SSO — Sanitary Sewer Overflow

SUO — Sewer Use Ordinance

WEF — Water Environment Federation

WWF — Wet weather flow

WWTP — Wastewater Treatment Plant

EXECUTIVE SUMMARY

The purpose of the Wastewater Collection System Rehabilitation Program (Program) is to provide the City of Meridian (City) with an evaluation of the existing wastewater collection system meter basins 5, 17, and 30 to identify improvement strategies for the wastewater collection system. This Program was developed by performing sanitary sewer evaluations on Basins 5, 17, and 30, temporary flow-monitoring, developing a City wide hydraulic model of the collection system, capacity assessment of the existing pump stations, and a collection system operational review.

1.1 PROJECT BACKGROUND

Meridian is located in the extreme east central portion of Mississippi. The City is approximately 46 square miles and has a population of approximately 38,314. The City's collection system consists of approximately 303 miles of gravity sewer system and conveys wastewater to two Treatment Plants, East Wastewater Treatment Plant and South Wastewater Treatment Plant. The City also maintains and operations sixty-one pump stations throughout the city to provide pressure where needed.

A previous report was prepared in January 2008 by Pipeline Analysis, LLC in conjunction with Carollo Engineers. This report was a detailed Sanitary Sewer System Evaluation of Basins 5, 17, and 30. This report is referenced in this document and was used in the development of the Program.

1.2 SEWER SYSTEM EVALUATION AND RENEWAL PROGRAM

To evaluate the flow hydraulics of the collection system, flow data from thirty temporary flow meters at key locations and flow data from the treatment plant were used. Infiltration/Inflow analysis was performed on the wastewater flow monitoring data provided rankings of the meter basins. Meter Basins 5, 17, and 30 were selected as high priority basins due to high Rainfall Dependent Inflow and Infiltration (RDII) rates.

The Meridian sanitary sewer system evaluation was performed to achieve following five major goals.

1. Infiltration/Inflow reduction
2. Collection system rehabilitation.
3. Regulatory compliance
4. Customer satisfaction
5. Cost Control

1.2.1 Manhole Inspections

Manhole inspections were performed on all accessible manholes within Meter Basins 5, 17, and 30 for a combined total of 643 inspected structures. The data collected during these inspections generated manhole rehabilitation recommendations. The recommendations are grouped into priority one or priority two categories based on the severity of the defect(s). The total estimated cost for manhole rehabilitation is \$207,253.

1.2.2 Mainline Smoke Testing

Mainline smoke testing was performed in Meter basins 5, 17, and 30 on various sewer lines. Defects were placed into two categories based on their location on private property or within the municipal right of way. Detailed sketches and photographs were taken for each defect identified. The total estimated cost for private sector rehabilitation is \$61,950.

1.2.3 Closed Circuit Television of Sewer Lines

To assess the condition of the sewer lines internal color television inspection was performed on 24,000 feet of gravity sewer in meter basins 5, 17, and 30. The gas company had previously performed 21,000 linear feet of inspection, which is incorporated on a limited basis. In addition, a study performed on several sewer lines in 1999 by Neel Shaffer and ADS was also incorporated on a limited basis. The estimated cost for the municipal mainline rehabilitation recommendations is \$1,865,024.

1.2.4 Rehabilitation Findings

The rehabilitation plan includes several types of repair methods. The methods include, but are not limited to the following:

1. Cured in Place Liner, Pipe bursting, Open Cut Replacement.
2. Service line rehabilitation.
3. Point repair.
4. Manhole rehabilitation.
5. Point repair and CCTV inspection.

The total cost to repair defects located in Meter Basins 5, 17, and 30 and from the previous inspections is \$2,134,227. The City should continue to inspect, test and repair located defects. This will extend the life of the collection system assets.

1.3 HYDRAULIC EVALUATION OF COLLECTION SYSTEM

A collection system model representing the City's sewer system was used to assess the base wastewater and flow caused by RDII deficiencies.

1.3.1 Service Area

The City's sanitary sewer collection system conveys wastewater from customers within the boundaries of the City and residential areas adjacent to the City. The City's service area was divided into thirty sewer basins in order to perform comprehensive analysis of the collection system. Wastewater flows during storm events indicate that large volumes of RDII are entering the collection system. Rainfall averages for Meridian is approximately 57 inches per year.

1.3.2 Land Use

The type of land use in an area will affect the volume of the wastewater generated. The City provided information on existing and future land use within the service area. Existing land use classifications were based on information as defined in the City's Municipal Code.

1.3.2.1 Existing Land Use and Future Land Use

The City is composed primarily of single-family residential land use that average 2 to 4 dwelling units per acre. Single family residential accounts for approximately 30 percent (excluding right of way) of the developed land. High Density Residential units are typically located within the commercial districts and average 6 to 15 dwelling units per acre.

Future land use includes the projected expansion of the City through inclusion of several areas currently defined and the full build-out of those lands within the City. Therefore, the future land use represents the total build out of the service area and not a specific projection year. Most of the City is zoned for single family residential with pockets of high density residential areas located throughout the City.

1.3.3 Network Model Development

The collection system model includes the City's pipelines with a diameter of 10 inches or greater, all associated manholes, diversion structures, and two pump stations. GIS data provided by the City was entered into the hydraulic model, which included pipe length, diameter, invert elevations, and rim elevations. Some 8-inch diameter pipelines critical to the evaluation of certain collection system areas were added to the model as needed. The modeled system consists of approximately 65 miles of pipeline. To ensure the most accurate results possible the model was calibrated to both dry and wet weather flow events.

The City's sewer collection system was modeled to determine if the current collection system capacity is sufficient for existing conditions and future growth. Pipe segments whose calculated capacity is less than their predicted peak flow are identified in this report as "deficient" or "inadequate".

1.3.4 Capacity Analysis

The purpose of the capacity analysis was to identify areas in the collection system where flow restrictions occur or where pipe capacity is insufficient to pass peak wet weather flows. The

collection system was modeled and analyzed using the 5-year 24-hour design storm to determine the system capacity deficiencies. The capacity analysis was performed for the existing land use condition and the build-out scenario. Model results indicated that no SSOs occurred under the 5-year, 24-hour SCS Type II design storm conditions, however there were fourteen surcharged pipelines varying in size and location.

1.3.5 Existing System Recommendations

Recommendations are made for improvements to the existing system in order to eliminate problems identified. These recommendations include increase pumping capacity, increase conveyance capacity, and implementation of a sewer-flushing program.

1.3.5.1 Pumping Capacity

The model results and a separate pump station analysis shows the pump capacities of pump stations identified as LS-AN (Red Lobster) and LS-AT (65th Ave) should be increased to accommodate the existing design storm flows.

1.3.5.2 Conveyance Capacity

Based on simulation results, thirteen pipelines require improvements for existing conditions and one pipeline require improvements for future conditions during the 5-year, 24-hour design storm.

1.4 PUMP STATION EVALUATION

The City currently maintains and operates 61 sewer pump stations including three pump stations serving the Naval Air Station. Activities performed during the pump station evaluation include:

1. Development of a pump station asset database.
2. Updates to the City's GIS database including new force main locations, pump station locations, and pump station service areas.
3. Determination of pump station flow dependency.
4. Hydraulic modeling of flows to each pump station.
5. Assessment of pump station operational capacity.

1.4.1 Pump Station Asset Database

A pump station asset database was developed as part of the City's Wastewater Master Plan. The current pump station inventory includes information that was readily available from City records and information gathered from staff testimony.

1.4.2 GIS Database of Pump Station and Force Main Locations

Each pump station location was entered into the City's GIS database except for the three pump stations serving the Naval Air Station. Several force mains were also added to the GIS database

and some sewer mains re-routed according to City staff interviews. Estimates of base wastewater flow and Inflow and Infiltration (I/I) rates to each pump station were calculated.

1.4.3 Assessment of Pump Station Operational Capacity

Each pump station was evaluated according to its ability to handle the design flows of incoming wastewater. The analysis included the assessment of the largest pump at each station due to the limited availability of information. When design flows are compared with the rated capacity of the largest pump at each pump stations, fourteen pump stations are under capacity. Based on the results of the flow modeling, interviews with City staff, and future growth projections, four pump stations: 1) The Red Lobster Pump Station, 2) The 65th Ave. Pump Station, 3) The Hwy. 39 #1 Pump Station, and 4) The Newell Road #1 Pump Station deserved closer analysis.

1.4.4 Recommendations

The recommendations for pump station improvements are based on the limited information available for the pump stations. A more detailed investigation should be performed prior to implementation of the recommended improvements. Capacity improvements for the pump stations were divided into two categories based on the severity of the deficiency. Priority 1 pump station recommendations include improvements to the four critical pump stations, listed below:

1. Red Lobster
2. Newell Rd #1
3. Hwy 39 #1
4. 65th Ave

Priority 2 pump station recommendation included improvements to the ten under capacity stations, listed below:

1. Newell Rd #2
2. Newell Rd #3
3. Lower Bounds Rd
4. 61st Court
5. Days Inn
6. MCC
7. North Hills St.
8. North Wood East Apt.
9. Pancake Field
10. Village Fair Mall

The pump station asset database should be updated and completed. The current assessment was performed using the readily available information. Completion of the database would provide information necessary to perform a more detailed analysis. Missing data should be field acquired. This would provide the minimum information to perform a capacity analysis on the stations excluded from the analysis due to lack of information.

1.5 OPERATIONS REVIEW

The City of Meridian has undertaken a review and evaluation of the existing wastewater collection system operations in association with the Sewer System Evaluation Survey (SSES).

The utility has several existing support programs that will require little effort to integrate into the overall framework of the O&M program. The following existing programs/activities have been identified as needed on an on-going basis:

1. Geographic Information System (GIS).
2. The current work order system.
3. Hydraulic modeling.
4. Maintaining Record Drawings and Specifications.
5. Cleaning and utilizing Closed-Circuit Television (CCTV).
6. Budgeting and accounting for capital and O&M expenditures.
7. Sanitary Sewer Overflows (SSO's).

Overall, the City of Meridian has implemented many of the programs that are necessary to provide reliable service, sustained operation and maintenance of the wastewater collection system. The majority of the recommendations can be undertaken by city staff at minimal cost, however some will require going through the budgeting process. A list of recommendations is as follows:

1. Preventive maintenance cleaning.
2. Fill vacant employment positions.
3. Sewer Use Ordinance (SUO) update.
4. As-built record sewer construction drawings management.
5. GIS software utilization.
6. Hydraulic modeling of new pipes.
7. Annual safety drills.
8. Satellite City Agreements review.
9. Long-term funding for system rehabilitation.
10. Development of long-term Wastewater Collection System Program.

1.5.1 Collection System

An updated departmental organization chart will need to be developed to identify City staff responsible for implementing, managing and updating the SSO abatement programs. This includes the following staff member's titles:

1. Chief Administrative Officer and Director.
2. Operations Superintendent.
3. Field Supervisors.
4. Field Crew.

Reduction in sanitary sewer overflows is a priority for the City to maintain long-term compliance with the MDEQ and EPA. Due to the age of the existing infrastructure, soil conditions and rainfall potential; additional crews and equipment will be required to maintain the existing level of customer service and reliability. As a result, the cost of service can be expected to increase as existing sewers are rehabilitated and/or replaced and new sewers are added to the collections system. Increasing the funding for collections system repair and rehabilitation will be required in order to continue to provide reliable service. The Meridian system replacement value is \$240 million with a design life of 100 years. This would equate to approximately \$2.4 million per year to fully fund replacement of the system.

1.5.2 Maintenance

The City of Meridian has recently initiated a Sanitary Sewer Evaluation for the collection system. This evaluation will include developing a detailed plan to address SSO's and infiltration/inflow into the collection system. The following are the parameters used to evaluate the condition of the collection system:

1. Setting Priority Areas using flow data.
2. Manhole Inspections.
3. Smoke Testing.
4. CCTV.
5. Cleaning.
6. System Repairs.
7. Performance Tracking.

1.5.3 Engineering

Engineering provides support within the Public Works Department for streets, storm water, parks, etc. The support functions for the wastewater group include:

1. Maintaining standard design criteria and construction details for new installations of sewers, streets, drainage, and water distribution.

2. Review new construction with input from wastewater utilities staff.
3. Construction inspection.
4. Update collection system maps.
5. Maintain all assets in GIS system.

As-built plans are maintained by engineering and are used to validate the collection system maps and update the GIS. The sewer GIS should be completely updated using the 36" x 44" blue-line drawings.

Local consulting engineers use City standards and specifications for design of gravity sewer systems for new developments. The minimum gravity sewer size for new construction is 8-inch diameter PVC pipe rating SDR 26. A warrantee period of 1-year and review by line maintenance personnel is required as part of the design review process, but there is no written policy on warrantee review or approval.

Public works provides construction inspection services depending on the type of project. Construction warranties are generally required by contract although no written program has been developed to track the final warrantee inspection and final acceptance.

1.5.4 Technical Support Functions

The City utilizes a computerized work management system that tracks customer complaints, budgets, etc. This system requires additional labor efforts as compared to other more modern systems that the City should consider upgrading in the future.

The City has several media outlets to utilize to notify and/or inform the public as part of their contingency planning. The Line Maintenance Superintendent is responsible for regulatory notification issues associated with the collection system. Only 16 of the 55 pump stations are equipped with telephone telemetry to notify staff of any operational issues. Replacement components for the pumps and spare pumps controls are kept as part of the maintenance inventory. The purchasing department maintains an inventory of supplies for pipe, fittings, valves, etc. for the collection system.

The existing SUO for the City prohibits discharges of storm water, grease, fats, etc. into the collection system. The SUO should be updated to address the issues of extraneous infiltration/inflow and fat, oils and grease (FOG). Sewer blockages as a result of FOG are the primary cause for sanitary sewer overflows.

1.5.5 Administrative Support

The City of Meridian maintains written job descriptions for all positions within the Public Works Department. The Civil Service Selection System is used to fill vacant positions. Employees are held personally responsible for their actions and safe conditions in their work areas. A priority for the safety committee would be to review and update safety programs.

The City of Meridian staff prepares and tracks the budgets. The budgets do not appear to have sufficient funding for system rehabilitation, Program projects, and emergency repairs. The City Council reviews and adjusts the user rates as necessary. Increased funding is required in order to provide the Public Works Department with the resources needed to maintain and expand the infrastructure.

1.6 WASTEWATER COLLECTION SYSTEM REHABILITATION PROGRAM

The end result of this study is a Program that itemizes suggested improvements by basin for existing and future conditions. Although the plan set forth in this section covers existing and future conditions, the Program should be reviewed and updated annually as part of the City's continuous endeavor to maintain an adequate sewage collection and treatment system. Proactive planning up front will enable the City to serve its current population and anticipated service area growth satisfactorily.

The Program summarizes rehabilitation and replacement of failing infrastructure identified during the field inspections, and capacity deficiencies in the collection system during the hydraulic modeling, and pump station deficiencies identified through the analysis of existing pump stations. When fully implemented, the Program will allow the conveyance of peak wet weather flows to the wastewater treatment plant (WWTP) during both existing and future conditions.

1.6.1 Program Development

The Program recommendations are divided into two categories based on the type and severity of the deficiency. Category 1 Program recommendations include Priority 1 defects identified during the field inspection, existing capacity improvements identified during the hydraulic modeling and Priority 1 pump station deficiencies. Priority 1 deficiencies are defined as failures of pipes or manholes, hydraulically deficient pipes for current flow conditions, and pump stations at high risk for capacity failure.

Category 1 recommendations are summarized in Table 1.1, Table 1.2, and Table 1.3.

Table 1.1 Category 1 Summary for Priority 1 Rehabilitation Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Occurrences
Manhole Rehabilitation	117
Private Sector Rehabilitation	69
Public Sector Rehabilitation	39
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	21
Mainline Rehabilitation	28

**Table 1.2 Category 1 Summary for Hydraulic Model Recommendations
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Problem ID	Basin	Manhole		General Location	Diameter (in)		Length (ft)
		Upstream	Downstream		Existing	Proposed	
EX-17-1	17	G27-179	G27-177	Along 34th Ave. between 12th St. and 11th St.	12	18	345.9
EX-10-1	10	E28-009	LS-AT	About 1,500 ft east of MS Hwy 19 and N. HILL St.	16	21	3119.0
EX-8-1	8	F25-036	F25-030	About 600 ft north of I29 and 49th St., between 5	24	30	1431.4
EX-10-2	10	F30-175	F30-158	East of Oak Dr. between Bounds Rd. and Spruce St.	10	18	1199.8
EX-10-3	10	F31-070	F30-185	300 ft east of Bounds Rd. and 62nd Ave. 17th St. a	10	18	999.6
EX-18-1	20	G29-032	G28-053	Along 33rd Ave., between 17th St. and 21st St.	10	18	1430.5
EX-12-1	12	G25-017	G25-015	East of 49th St., between 1st St. and Front Rd.	18	24	1164.5
EX-1-1	1	G25-043	G25-029	North of I20 between 49th Ave. and 31st Ave.	24	30	1005.6
EX-17-2	17	G26-268	G25-078	Along 36th Ave., between 2nd St. and Interchange	27	36	593.5
EX-27-1	27	I28-069	I27-080	North of 8th Ave., between B St. and US Hwy 45	15	24	2390.1
EX-13-1	13	G28-152	G26-128	Along 45th Ave., between 14th St. and 5th St.	24	36	3556.4
EX-17-3	17	G27-183	G27-163	Along 34th St. between 12th St. and 10th St.	12	21	1004.1
EX-15-1	15	G32-078	G31-131	Along 34th Ave., 35th Ave. and 36th Ave.	10	18	2927.1

Table 1.3 Priority 1 Lift Station Recommendations Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Pump Station	Existing Pump Capacity (gpm)	Total Cumulative Incoming Flows to Pump Station (gpm)	Design Flow with estimated 20% Growth (gpm)
Red Lobster	1,000	1,277	1,500
Newell Rd #1	275	775	900
Hwy 39 #1	275	688	800
65th Ave.	1,200	1,979	2,400

Category 2 Program recommendations included Priority 2 defects identified during the field inspection, future capacity improvements identified during the hydraulic modeling and Priority 2 pump station deficiencies. Priority 2 deficiencies are defined as defects in pipes or manholes, hydraulically deficient pipes for future flow conditions, pump stations that are at risk for future capacity failure. Category 2 recommendations are summarized in Tables 1.4, Table 1.5, and Table 1.6.

Table 1.4 Category 2 Summary for Priority 2 Rehabilitation Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Occurrences
Manhole Rehabilitation Priority 2	349
Private Sector Rehabilitation Priority 2	113
Public Sector Rehabilitation Priority 2	105
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report) Priority 2	124
Mainline Rehabilitation Priority 2	12

**Table 1.5 Category 2 Summary for Hydraulic Model Recommendations
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Problem ID	Basin	Manhole		General Location	Diameter (in)		Length (ft)
		Upstream	Downstream		Existing	Proposed	
FUT-5-1	5	J33-004	J31-050	Between N. Hills St. and Old US Hwy 45	10	18	5027.0

**Table 1.6 Priority 2 Lift Station Recommendations
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Pump Station	Existing Pump Capacity (gpm)	Total Cumulative Incoming Flows to Pump Station (gpm)	Design Flow with estimated 20% Growth (gpm)
Newell Rd #2	250	458	500
Newell Rd #3	100	392	500
Lower Bounds Rd	150	154	200
61st Court	75	89	100
Days Inn	150	152	200
MCC	100	203	200
North Hills St.	45	117	100
North Wood East Apt.	150	371	400
Pancake Field	100	108	100
Village Fair Mall	100	148	200

PROJECT BACKGROUND

Meridian is located in the extreme east central portion of Mississippi. The City is approximately 46 square miles and has a population of approximately 38,314. The Water and Sewer Department serves approximately 14,200 customers, the Naval Air Station, and also collects wastewater from the city of Marion. The collection system consists of approximately 325 miles of gravity sewer and 61 pump stations.

2.1 PRIMARY PROJECT TASKS

The goal of this project is the development of a Collection System Rehabilitation Program that identifies long-term improvement strategies for the wastewater collection system. Four major tasks were performed to complete this goal. They are:

1. Sanitary Sewer System Evaluation of a selected portion of the collection system.
2. Development of a City Wide Hydraulic Model of the Collection System.
3. Capacity Assessment of the Existing Lift Stations.
4. Collection System Operational Review.

These tasks are described in more detail in the following sections of this report.

2.2 ADDITIONAL PROJECT TASKS

Temporary flow-monitoring program was performed in addition to the above four tasks. This flow data was used to perform an Inflow and Infiltration analysis. The results from this analysis were used to select the portion of the collection that would be included in Sanitary Sewer System Evaluation. The flow data was also utilized during the hydraulic modeling.

The City GIS was updated prior to the development of the hydraulic model. Existing pipe diameter, lengths and inverts were entered into the GIS database. A Citywide sewer atlas was prepared using the updated GIS.

SANITARY SEWER SYSTEM EVALUATION

3.1 INTRODUCTION

To evaluate the flow hydraulics of the collection system flow data from thirty temporary flow meters at key locations and flow data from the treatment plant were used. Rainfall totals at ten locations were used to evaluate the Rainfall Dependent Inflow and Infiltration characteristics of the flow meter basins. Infiltration/Inflow analysis performed on the wastewater flow monitoring data provided rankings of the meter basins. Meter Basins 5, 17, and 30 were selected as high priority basins due to high RDII rates. A previous study was performed in 1999 over multiple basins; these results are included in this analysis. The ranking of the all of the Basins is included in Attachment A1.

3.2 SEWER SYSTEM EVALUATION AND RENEWAL PROGRAM

The Meridian sanitary sewer system evaluation for Meter Basins 5, 17, and 30 was performed to achieve following five major goals.

1. Infiltration/Inflow reduction.
2. Collection system rehabilitation.
3. Regulatory compliance.
4. Customer satisfaction.
5. Cost Control.

Collection system renewal is a continual process of including identifying defects, prioritizing them, and fixing them. A typical goal is to inspect the system on a ten-year cycle or 10% of the system per year. Applying this procedure to Meriden would require inspecting 172,000 linear feet annually.

American Society of Civil Engineers performed an EPA sponsored study that collected data on wastewater collection systems nationwide. This provided collection system managers the ability to compare their reinvestment in to the collection system. Application of this benchmark to Meridian is shown below.

1. Meridian should reinvest 3 million a year in the collection system.
2. Removing the need to replace newer PVC pipe would reduce the reinvestment to 2.4 million.
3. The City would need to invest \$428,000 per year for system maintenance.
4. The EPA study recommends a minimum cleaning program of 20% per year.

Several tools can be used to locate structural and Inflow/Infiltration defects of a sanitary sewer system. These include flow metering, manhole/pipe inspection smoke testing, and CCTV (closed circuit television) inspection.

Collection system rehabilitation methods are used to extend the life of the existing assets. Manhole rehabilitation methods include lining, sealing, installing watertight ring and covers, rising buried manholes, replacing vented covers, etc. Mainline sewer rehabilitation include cured-in-place (CIPP), slip lining and upsizing or pipe replacement by pipe bursting. These methods include trenchless technologies, which limits the impact to the customers.

3.2.1 Manhole Inspections

Manhole inspections were performed on all accessible manholes within Meter Basins 5, 17, and 30 for a combined total of 643 inspected structures. The manhole inspection included the following observations:

1. Casting/cone condition.
2. Manhole wall condition.
3. Manhole bench flow conditions.
4. Influent and effluent pipes.
5. Silt deposition.

Manhole rehabilitation recommendations were generated using the data collected during the physical inspections. The recommendations are grouped into three priority categories based on the severity of the defect(s) located. They are:

1. Priority 1 defects are severe and require immediate attention due to failure or imminent failure.
2. Priority 2 defects require repair when funding is available.
3. Priority 3 defects are minor and do not require repair.

Estimated costs for each repair were determined. The total estimated cost for priority 1 and 2 manhole repairs is \$207,253. Table 3.1 summarizes the manhole rehabilitation recommendations.

Table 3.1 Manhole Rehabilitation Summary Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type of Rehabilitation	Occurrences
Replace Manhole Ring and Cover	46
Realign and Seal Manhole Ring and Cover	108
Raise Manhole or Mainline Cleanout to Grade	49
Structurally Repair Chimney/Cone and Coat	32
Clean Manhole, Repair as Needed and Coat	43 (333 VF)
Reconstruct Manhole Bench and Invert	15
Install Inflow Protector Insert for Manhole, T-cone stopper for cleanout	121
Stop I/I Clean, Repair Pipe Seal and/or Seam and Coat Area	52
Priority 1 Total Cost	\$41, 193
Priority 2 Total Cost	\$166,061
Total Manhole Rehabilitation Cost	\$207,253

3.2.2 Mainline Smoke Testing

Mainline smoke testing was performed in meter basins 5, 17, and 30. Smoke testing is accomplished by pressurizing non-toxic smoke into the sewer pipe and defects are identified in the public sewer line or private lateral when smoke escapes through the defects. Once located the defects are placed into two categories based on the position of the defect. These categories are private property and municipal right of way. Detailed sketches and photographs were taken for each defect identified. The total estimated cost for private sector cost is \$61,950. Table 3.2 summarizes the private sector rehabilitation recommendations.

Table 3.2 Private Sector Rehabilitation Summary Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type of Rehabilitation	Occurrences
Disconnect Abandoned Service Line	56
Disconnect Roof Drain	1
Install Clean Out	2
Notify Resident of Faulty Plumbing	10
Point Repair	64
Replace Missing Cleanout Cap	26
Repair Broken Cleanout	23
Priority 1 Total Cost	\$26,100
Priority 2 Total Cost	\$35,850
Total Manhole Rehabilitation Cost	\$61,950

3.2.3 Closed Circuit Television of Sewer Lines

Internal color television inspection was performed on 24,000 feet of gravity sewer in meter basins 5, 17, and 30 to assess the pipe condition, as shown in Table 3.3. A study performed in 1999 by Neel Shaffer and ADS was incorporated as shown in Table 3.4. Appropriate caution should be taken when implementing the recommendations obtained from the Neel-Shaffer and ADS based recommendation due to the age of the data. In addition to the above inspections, the gas company had previously performed 21,000 linear feet of inspection in various basins, as indicated in Table 3.5. Municipal mainline rehabilitation recommendations were generated using the information with an estimated total cost of \$1,865,024. Table 3.3, Table 3.4, and Table 3.5 summarize the estimated mainline rehabilitation costs for the various inspections.

Table 3.3 Public Mainline Rehabilitation Summary Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Occurrences
Cured in Place Pipe	69 (18,5508 LF)
Dye Flood/CCTV	2 (672 LF)
Plug Overflow Pipe at Manhole G26-041	1
Point Repair	34
Point Repair/ CCTV	1 (300 LF)
Plug Overflow Line at Manhole	1
Repair Broken Cleanout	2
Replace Section of Mainline	1
Replace 6 inch Line Segment	5 (1,308 LF)
Public Mainline Rehabilitation Priority 1 Cost	\$60,866
Public Mainline Rehabilitation Priority 2 Cost	\$1,386,273
Public Mainline Rehabilitation Total Cost	\$1,447,139

Table 3.4 Neel Shaffer/ADS Rehabilitation Summary Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Occurrences
Disconnect Abandoned Service Line	21
Smoke Test to Confirm Segment for Dye Flood and CCTV	42
Point Repair	61
Repair Service Cleanout	21
Repair Mainline Cleanout	1
Public Mainline Rehabilitation Priority 1 Cost	\$9,450
Public Mainline Rehabilitation Priority 2 Cost	\$43,450
Public Mainline Rehabilitation Total Cost	\$52,900

Table 3.5 Public Mainline Rehabilitation Summary (From Gas Company Videos) Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Occurrences
Cured in Place Pipe	12 (4,011 LF)
Point Repair	28
Remove Roots	4
Public Mainline Rehabilitation Priority 1 Cost	\$69,741
Public Mainline Rehabilitation Priority 2 Cost	\$295,244
Public Mainline Rehabilitation Total Cost	\$364,985

The rehabilitation plan includes several types of repair methods. The methods include, but are not limited to the following:

1. Cured in Place Liner, Pipe bursting, Open Cut Replacement.
2. Service line rehabilitation.
3. Point repair.
4. Manhole rehabilitation.
5. Point repair and CCTV inspection.

The total cost to repair defects located in Meter Basins 5, 17, and 30 identified during this evaluation is \$2,134,227. The City should continue to inspect, test and repair located defects. This will extend the life of the collection system assets. The recommended order for testing should follow the rankings of the meter basins.

HYDRAULIC EVALUATION OF COLLECTION SYSTEM

The City sewer system has evolved over the years during its increasing development due to the quality of life, recreational access, and educational and medical services. To handle the elevated flows the aging sewer system is in need of selective replacement and rehabilitation.

The purpose of the model is to evaluate the capacity of the existing collection system during peak wet weather flows and to develop improvement recommendations that will provide the City with a reliable and economic wastewater collection system for the future.

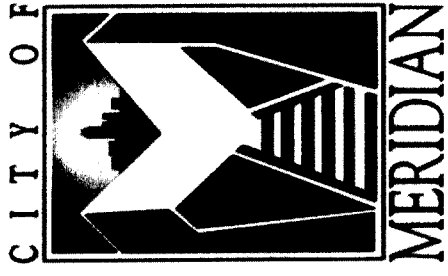
This Chapter describes the City's service area and the physical factors that influence sanitary sewer flows and defines the information and assumptions used to develop the City's collection system hydraulic model. These factors include general background information, flow monitoring activities, hydraulic model development, and pipe capacity analysis.

4.1 SERVICE AREA

The City's sanitary sewer collection system conveys wastewater from customers within the boundaries of the City and residential areas adjacent to the City to the wastewater treatment plant. The wastewater treatment plant accepts sanitary flows from about 303 miles of gravity sewers.

In order to perform comprehensive analysis of the collection system, the service area was divided into thirty sewer basins as shown in Figure 4.1.

The sewer system in the service area is aging and in need of selective rehabilitation and replacement to handle the elevated flows from the inflow and infiltration. Wastewater flows during storm events indicate that large volumes of RDII are entering the collection system. These increased flows limit the amount of additional flow that can enter the system and result in a system operating at its peak capacity. Rainfall averages 57 inches per year.



Legend

- Flow Monitors
- Rain Guages
- Streets
- Meter Basins



4.1.1 Land Use

Land use information is an integral component in estimating the amount of wastewater generated within any City. The type of land use in an area will affect the volume of the wastewater generated. Adequately estimating the generation of wastewater from various land use types is important in sizing and evaluating collection system facilities.

The City provided information on existing and future land use within the service area. Existing land use classifications were based on information as defined in the City's Municipal Code. Both the existing and future land use data were provided to Carollo in GIS format. Descriptions of the various land use types are presented in the following sections.

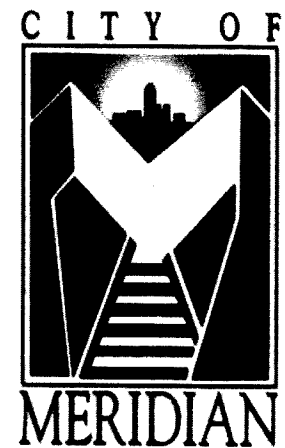
4.1.1.1 Existing Land Use

Figure 4.2 presents the existing land use classifications within the service area. The distribution of existing land use within the service area in terms of acreage and percentage is presented in Table 4.1. Results from the table show that the City is composed primarily of single family residential land use that average 2 to 4 dwelling units per acre. Single family residential accounts for approximately 30 percent (excluding right of way) of the developed land. High Density Residential units are typically located within the commercial districts and average 6 to 15 dwelling units per acre.

4.1.1.2 Future Land Use

Future land use includes the projected expansion of the City through inclusion of several areas currently defined and the full build-out of those lands within the City. Therefore the future land use represents the total build out of the service area and not a specific projection year. The number of developed acres for each land use type is presented below for current and future planning scenarios.

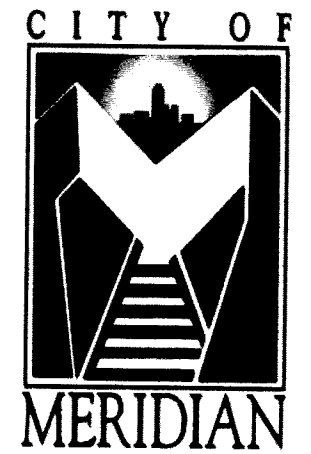
Figure 4.3 illustrate the locations of the various land use classifications used in the model for the future scenario. Table 4.1 show the areas associated with the future land use scenarios. Most of the City is zoned for single family residential with pockets of high density residential areas located throughout the City.



Legend

- Agricultural
- Central Business
- General Business
- Heavy Industrial
- High Density Residential
- Light Industrial
- Medium Density Residential
- Neighborhood Business
- Professional Business
- Public Use
- Regional Business
- Residential-Business
- Single Family Residential
- Vacant





Legend















-  Agricultural
-  Central Business
-  General Business
-  Heavy Industrial
-  High Density Residential
-  Light Industrial
-  Medium Density Residential
-  Neighborhood Business
-  Professional Business
-  Public Use
-  Regional Business
-  Residential-Business
-  Single Family Residential
-  Vacant



Table 4.1 Existing and Future Land Uses Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Land Use Type	Area (ac)		Percent Change
	Existing	Future	
Agricultural	50	3,040	5,980
Single Family Residential	3,931	9,072	131
Medium Density Residential	565	618	9
High Density Residential	30	779	2,497
Central Business	375	189	-50
General Business	569	1,011	78
Neighborhood Business	178	498	180
Professional Business	72	103	43
Regional Business	429	1,811	322
Residential Business	35	52	49
Heavy Industrial	318	1,364	329
Light Industrial	339	1,525	350
Public Use	852	5,654	564
Vacant	5,162	2	-100
Total	12,905	25,718	-
Percent change: (future land area minus existing land use area) times 100 divided by existing land use area			

4.2 NETWORK MODEL DEVELOPMENT

In general, collection system models can assess the current level of performance for the collection system based on population and land use. Also, collection system models can perform “what if” scenarios to project the performance of future developments or population and land use changes. XP-SWMM and InfoWorks software were used to model the City’s collection system.

The collection system model includes the City’s pipelines with diameters of ten inches or greater, all associated manholes, diversion structures, and two pump stations. GIS data provided by the City was entered into the hydraulic model. This data includes pipe length, diameters, invert elevations, and rim elevations.

The City’s service area was divided into sub basins for both existing and future conditions. Each sub basin has an associated amount of residential and commercial flow that enters the collection system through a pipe within or close to the sub basin. The residential and commercial flows were determined from the land use flow rates taken from the City’s Municipal Code and General Plan.

Model calibration is a crucial component of the hydraulic modeling effort. Calibrating the model to known flow metering data is to ensure the most accurate results possible. The calibration process consists of calibrating to both dry and wet weather flow events. Dry weather flow calibration ensures an accurate depiction of base flow generated within the study area, based on population estimates and land use. The wet weather flow calibration consists of calibrating the hydraulic model to a specific storm event to quantify the peak and volume of inflow and infiltration into the collection system. The flows measured from 04/13/2006 through 04/19/2006 were averaged to provide typical dry weather flow conditions to calibrate the model during dry weather flow. For wet weather conditions, the hydraulic model was calibrated to the storm events occurring on March 20, 2006, April 21, 2006 and April 30, 2006.

The calibration process compares the flow metering data with the model output. Comparisons are made for minimum, maximum and average flows as well as the temporal distribution of flow. The dry and wet weather flows injected into the model are calibrated to each flow meter and its tributary pipes in order to match the peak and volume of the flow monitoring data chosen for calibration. Wet weather flow calibration also entails adjusting inflow and infiltration parameters within the model to match the flow monitoring data for each meter during the wet weather rainfall event.

The City’s sewer collection system was modeled to determine if the current collection system capacity is sufficient for existing conditions and future growth. The model calculates sanitary sewer system flows for existing and future conditions based on land use, population and RDII, and compares the flows to the capacity of each modeled pipe in the system. Pipe segments whose calculated capacity is less than their predicted peak flow are identified in this report as “deficient” or “inadequate”.

To keep the amount of input data manageable and to focus on the primary wastewater transmission and interceptor lines, the model considered only pipelines 10 inches or more in diameter. Some 8-inch diameter pipelines critical to the evaluation of certain collection system areas were added to the model as needed. The modeled system is shown on Figure 4.4. The modeled system consists of approximately 65 miles of pipeline.

4.2.1 Collection System Model

The hydraulic model was developed by importing network components directly from the City's GIS coverage's. The extents of the hydraulic model are shown in Figure 4.4. Only the major segments of the piped system were included in the model, which includes approximately 1,025 MHs, 1,440 pipe segments, and 2 pump stations. Lift station capacity, number of pumps, and pump on and off levels were obtained from available design documents.

4.2.1.1 Model Input Data

The basic information required to develop the hydraulic model can be grouped into two categories; sewer physical data and flow input data. The sewer physical data includes sewer size, sewer invert elevation at manholes, manhole top elevation, location of manholes and roughness of sewer pipe. These data were obtained using sewer maintenance records supplemented by as-built drawings and the City sewer map. Where critical data was missing, field surveys were conducted.

4.2.1.1.1 *Pipe Roughness*

A primary factor affecting a pipe's capacity is the roughness of its interior surface. Empirical testing over many years has established a series of roughness coefficients to characterize the relative smoothness of different types of piping. One such coefficient, called Manning's n-value, was incorporated into pipe capacity formulas for the computer model. The Manning's n-values in the model range from 0.014 to 0.018.

4.2.1.1.2 *Sub Basins and Model Loads*

Wastewater inflows used in the model were based on the City's existing land use and zoning maps, flow monitoring results and model calibration. Sub basins provide a method to estimate and apply loads to the collection system model. Each sub basin represents a defined area in which all businesses and residents apply loads to the system. Based on existing sanitary sewer alignments, sub basins were established throughout the service area. Loads were applied to the model at sub basin loading point.

A total of 188 sub basins and 174 load points were established to provide an estimate of a service area for each sewer line under existing conditions. The existing sub basins were modified to account for potential growth areas to derive the future sub basins.

4.2.2 Model Analysis Tools

Various modeling tools are needed to address a wide variety of modeling objectives. These objectives require different levels of detail and the ability to model the system performance over a wide range of time periods. Because of the spatial detail required and the time scales of interest, the conveyance system modeling has two main components:

- Sub basin flow generation model; developed using XP-SWMM software.
- Dynamic hydraulic model of the conveyance system; developed using InfoWorks software.

The XP-SWMM model software was used to develop the runoff model, which generates the Dry Weather Flow (DWF) for each sub basin. The program also computes the RDII components and adds these to the DWF to create sub basin wastewater hydrographs for the InfoWorks hydraulic model. InfoWorks then routes the sub basin wastewater hydrographs through the conveyance system to the wastewater treatment plant. The model also simulates the pump station operations as well as sanitary sewer overflow (SSO) discharges.

4.3 FLOW MONITORING

Sanitary sewer model flows for the City were derived from flow monitoring results. Flow monitoring is a critical part of any comprehensive collection system modeling effort. The flow monitoring data is necessary to correlate projected flow estimates, based on land use (and/or population projections) and flow factors, with actual or “real world” collection system flows, and make necessary flow adjustments in the hydraulic model. The flow monitoring program provided vital information on how the City’s collection system behaves under various loading conditions.

Pipeline Analysis, LLC (PA) conducted the flow monitoring program. PA installed twenty-nine flowmeters and nine rain gauges for the period between March 2006 and May 2006. The twenty-nine flowmeters were located to monitor isolated flow emanating from each of the basins monitored. The locations of the flowmeters are presented in Figure 4.1. The flow monitoring sites were selected to provide flow data in critical sewer sections throughout the service area. Flow monitoring sites need to be readily accessible, and the flow stream should approximate a fairly quiescent sub-critical flow situation.

The flow monitoring results were adequate for model calibration and characterization of the system RDII response under average wet-weather conditions. However, the flow monitors did not capture any extreme storm events. Extreme rainfall events are those that have a 5-year or greater return frequency.

The flow meters defining flow from each basin are presented in Table 4.2. In the table, the Cumulative Flow is the average volume recorded at the meter site and the “Discrete Flow” is the “Cumulative Flow” volume less the flow contribution from up stream meter basins. The table indicates that DWF production per unit area is highest in Basin 29, which generates approximately 2,000 gpd/ac. Basin 30 generates the least DWF per acre of land.

Table 4.2 Summary of Flow Monitoring Results
Wastewater Collection System Rehabilitation Program
City of Meridian, MS

Basin ID	Up Stream Meter Basins	Dry Weather Flow ⁽¹⁾ (mgd) ⁽²⁾		Basin DWF Rate (gpd/ac)
		Cumulative	Discrete	
2	FM 3 & FM 4	1.39	1.00	563
3	None	0.07	0.07	232
4	FM 5	0.32	0.10	151
5	FM 6	0.22	0.04	86
6	None	0.18	0.18	179
7	None	0.02	0.02	73
8	FM 9 & FM 10	0.88	0.53	574
9	None	0.07	0.07	141
10	FM 11	0.28	0.22	382
11	None	0.06	0.06	74
12	None	0.27	0.27	866
13	FM 14	0.96	0.00	0
14	FM 15	1.06	0.64	1,525
15	FM 15	0.42	0.42	426
16	FM 17, FM 29, FM 27, FM 25, FM 23 & FM 21	2.41	0.44	970
17	FM 19 & FM 18	0.51	0.29	1,316
18	None	0.04	0.04	228
19	FM 20	0.18	0.13	622
20	None	0.06	0.05	226
21	FM 22	0.22	0.06	569
22	None	0.16	0.16	538
23	FM 24	0.30	0.09	284
24	None	0.21	0.21	606

**Table 4.2 Summary of Flow Monitoring Results
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Basin ID	Up Stream Meter Basins	Dry Weather Flow ⁽¹⁾ (mgd) ⁽²⁾		Basin DWF Rate (gpd/ac)
		Cumulative	Discrete	
25	FM 26	0.33	0.24	758
26	FM 26	0.09	0.09	168
27	FM 27, FM 7 & FM 30	0.26	0.06	302
28	FM 28	0.11	0.11	148
29	FM 29	0.35	0.35	1,977
30	FM 30 & FM 28	0.18	0.07	221
Total		-	6.01	

⁽¹⁾ DWF = Dry Weather Flow based on average of April 13 through April 19, 2006

⁽²⁾ mgd = million gallons per day

FM: Flowmeter

4.3.1 Wastewater Flow Components

Typically, wastewater consists of three components: base wastewater flow (BWF), groundwater infiltration (GWI), and rainfall dependent inflow and infiltration (RDII). BWF and GWI during dry weather constitute dry weather flow (DWF). GWI occurs when groundwater levels are above the inverts of the collection system pipes and when the collection system has faulty joints or other defects that allow infiltration. Sewer pipes within close proximity to a body of water can be greatly influenced by groundwater effects. RDII occurs during wet weather conditions and causes wastewater flow to increase.

4.3.1.1 Base Flow Projections

BWF is sanitary flow generated from residential, commercial, industrial, and public or institutional sources that discharge into the wastewater collection system. It may vary in magnitude throughout the day, but generally follows a predictable and repeatable diurnal pattern with peak flow usually occurring during the morning hours.

Unit flow rates were determined for all major land use designations; single family residential, multi-family residential, commercial, and industrial as part of the BWF calculations. The City's land use categories identified in the parcel and zoning maps were consolidated for use in developing the flows. The distribution of these land uses is shown in Figure 4.2 and 4.3.

4.3.1.1.1 Residential Unit Flow Rates

Residential unit flow rates were developed using the 2006 flow monitoring data, the zoning map, and the City parcel map. The unit flow rates (gpcd) for existing conditions were initially selected based on our experience with similar cities and later refined through iterative techniques. For each land use category, the total number of houses or tax lots (units) per acre of land was determined. An average household size of 2.75 persons per house was assumed for residential categories. The average household size (persons/unit) multiplied by the number of houses or units per acre in each land use category yielded a total population per acre (i.e. population density). The area flow rate (gpd/acre) for each land use category was then determined by multiplying by the population density by the unit flow rate (gpcd).

The future residential area flow rates were assumed to be 1.2 times the area flow rates calculated for the existing conditions. Table 4.3 lists the existing and future unit rates used to generate BWF.

4.3.1.1.2 Commercial and Industrial Unit Flow Rates

The commercial and industrial unit flow rates were selected based on our experience with similar cities and later refined through iterative techniques. These rates listed in Table 4.3 are close to typical rates of commercial and industrial flows that can vary from 800 to 1,500 gpd/acre (*Wastewater Collection System Modeling and Design*, First Edition, Haestad Methods et al., 2004). However, commercial and industrial rates can vary greatly depending on the type of activity that affects intensity of use, low flow fixtures, local water rates, etc.

Table 4.3 Summary of Flow Monitoring Results Wastewater Collection System Rehabilitation Program City of Meridian, MS							
Land Use Type	Persons per Unit	Units per acre	Persons per acre	Unit Flow Rate (gpcd)		Area Flow Rate (gpd/acre)	
				Existing	Future	Existing	Future
Residential							
Single Family Residential	2.75	2	5.50	73	88	400	484
Medium Density Residential	2.75	5	13.75	69	83	950	1,141
High Density Residential	2.75	10	27.50	65	78	1,800	2,145
Non-Residential							
Central Business						3,000	3,600
General Business						2,000	2,400
Neighborhood Business						900	1,080
Professional Business						2,000	2,400

Table 4.3 Summary of Flow Monitoring Results Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Regional Business		2,200	2,640
Residential Business		900	1,080
Heavy Industrial		720	864
Light Industrial		400	480
Public		22	26

4.3.2 Groundwater Infiltration (GWI)

GWI is groundwater that infiltrates into the sewer system through defects in manholes and pipes. GWI rates vary depending on time of year, the condition of the sewers, soil type, and groundwater levels. However, GWI rates stay fairly consistent throughout the day. GWI was calculated as the difference between metered DWF and BWF at each flow meter basin. The calculated GWI was applied evenly as a flow per acre to the entire area upstream of each flow meter. Table 4.4 summarizes the modeled GWI flow that was used for each basin. The GWI loads were later re-evaluated and adjusted during final calibration of the dry weather flow model.

For future areas, GWI was calculated by identifying the sub basin the future land is located. To calculate the GWI the corresponding GWI rate was multiplied by the future land area. Table 4.4 below shows the calculated BWF and GWI rates.

Table 4.4 Base Wastewater Flow and Groundwater Infiltration Wastewater Collection System Rehabilitation Program City of Meridian, MS								
Site	Flow (mgd)		Site	Flow (mgd)		Site	Flow (mgd)	
	BWF	GWI		BWF	GWI		BWF	GWI
2	0.840	0.160	12	0.183	0.087	22	0.105	0.055
3	0.051	0.019	13	0.008	0.001	23	0.078	0.012
4	0.087	0.013	14	0.472	0.168	24	0.149	0.061
5	0.024	0.016	15	0.221	0.199	25	0.156	0.084
6	0.155	0.025	16	0.290	0.150	26	0.065	0.025
7	0.018	0.002	17	0.195	0.095	27	0.050	0.010
8	0.345	0.185	18	0.036	0.004	28	0.08	0.03
9	0.049	0.021	19	0.099	0.031	29	0.171	0.180

Table 4.4 Base Wastewater Flow and Groundwater Infiltration Wastewater Collection System Rehabilitation Program City of Meridian, MS								
Site	Flow (mgd)		Site	Flow (mgd)		Site	Flow (mgd)	
	BWF	GW		BWF	GW		BWF	GW
10	0.131	0.091	20	0.039	0.011	30	0.055	0.015
11	0.042	0.018	21	0.047	0.013			
DWF = BWF + GW								

4.3.3 Rainfall Dependent Inflow and Infiltration (RDII)

RDII consists of stormwater entering the collection system either as direct inflow of stormwater runoff or rainfall induced infiltration. Inflow occurs when stormwater flows directly into the collection system through connected catch basins, manhole covers, area drains, or downspouts. Inflow usually occurs very rapidly during a storm event and can become more severe if surface flooding occurs and manholes are submerged. Rainfall induced infiltration is caused by stormwater percolating through the ground and entering the sewer pipes, manholes, and service laterals through cracks and defective joints.

Analysis of RDII requires a method to relate sewer flows to rainfall. Methods in use are documented in the Water Environment Research Foundation project report *Sanitary Sewer Overflow Flow Prediction Technologies*, Project, April 1999. The Rainfall-Flow Regression Method and true hydrologic method are two commonly methods often considered.

The Rainfall-Flow Regression method estimates RDII based upon a relationship developed using multiple linear regressions to associate rainfall summed over various antecedent periods to observed RDII flow. Due to the available data quality and quantity, the Rainfall-Flow Regression Method was not considered in this study.

True hydrologic method was used in this analysis. This approach can be used to estimate basin response to any arbitrary rainfall condition. A runoff model was developed to simulate the response of the sanitary collection system to sanitary, groundwater, hydrologic, and rainfall derived flows. Once calibrated, the model can be used with a long-term local rainfall record or design storms to simulate the RDII and total flows that would be expected at every hour of that rainfall record. With this method, there is increased confidence that the response of the system is accurately estimated. This confidence, however, is predicated on the ability of the model to predict peak flows beyond the range of rainfall conditions experienced in the monitoring periods. Confidence is increased with longer monitoring and a greater variation in rainfall events during that monitoring period.

4.4 MODEL CALIBRATION

Model calibration is a crucial component of the hydraulic modeling effort. Model calibration to known flow metering data is necessary to provide more accurate modeling results. The calibration process consists of calibrating to both dry and wet weather flow events. Dry weather flow calibration ensures an accurate depiction of base wastewater flow generated within the study area, based on land use. The wet weather flow calibration consists of calibrating the hydraulic model to a specific storm event to quantify the peak and volume of inflow and infiltration into the collection system. The amount of inflow and infiltration allowed to enter the collection system is essentially the difference between the wet weather flow and dry weather flow components.

4.4.1 Dry Weather Flow Calibration

Calibration under dry weather flow conditions was performed to verify the base flow generated. The calibration was performed at each flow monitoring location using data from the 2006 monitoring program. The dry weather calibration period is based on monitored flows occurring from 04/13/2006 through 04/19/2006. The primary goal of the calibration was to match the volume of flow generated in the model with the volume measured during the monitoring period. The secondary goal was to match the average dry weather flow pattern between the data sets.

GWI and BWF rates were added to each loading manhole (flow insertion point) and run through the XP-SWMM model. The dry weather calibration process required the adjustment of BWF and GWI parameters so the peaks and valleys of the diurnal curve would match dry weather flow monitoring data gathered for this project. A closely calibrated model consists of diurnal curves (model) peaking consistently with diurnal with diurnal curves developed through flow monitoring process.

Adjustments were made to BWF loads within each sub basin so that the peaks and valleys of the diurnal curves matched the observed flows recorded by the respective flow meter. Judgment was used to evaluate and modify the initial loads throughout the service area. Several iterative simulations were executed during the model calibration.

After the residential, commercial and industrial flows were determined, diurnal curves were created for all pipes tributary to a specific flow meter. The diurnal curves depict the time variation of base flow throughout a 24-hour period. Usually, peaks in a diurnal curve will occur in the morning between 8 a.m. and 10 a.m., and again in the evening between 6 p.m. and 8 p.m. Using the flow data measured during the monitoring period, an average diurnal curve was developed for each flowmeter basin.

The dry weather diurnal curves were developed using five days of dry weather that were preceded by dry weather periods of at least a few days. These days fell between 04/13/2006 and 04/19/2006. The dry weather flow pattern was based on metered flows occurring every 15 minutes (pattern time step in the model) over a 24-hour period (duration in model). The dry weather pattern was considered uniform throughout the sewer system upstream of the flow monitoring point.

Consequently, sanitary base loads upstream of the calibration points were adjusted by the dry weather pattern for the dry weather calibration.

The results of the dry weather flow calibration are shown in Table 4.5. Graphical results for two flow monitoring sites are presented in Figures 4.5 and 4.6. Similar analyses were completed for all flowmeter basins and are presented in Appendix 2.

Table 4.5 Dry Weather Flow Calibration Results Wastewater Collection System Rehabilitation Program City of Meridian, MS											
Site	Average Flow (mgd)		Absolute Error (%)	Site	Average Flow (mgd)		Absolute Error (%)	Site	Average Flow (mgd)		Absolute Error (%)
	Actual	Model			Actual	Model			Actual	Model	
2	1.390	1.405	1.08	12	0.270	0.268	0.74	22	0.160	0.162	1.25
3	0.070	0.070	0.00	13	0.960	1.002	4.38	23	0.300	0.305	1.67
4	0.320	0.317	0.94	14	1.060	1.055	0.47	24	0.210	0.212	0.95
5	0.220	0.218	0.91	15	0.420	0.421	0.24	25	0.330	0.328	0.61
6	0.180	0.182	1.11	16	2.410	2.45	1.66	26	0.090	0.089	1.11
7	0.020	0.021	5.00	17	0.510	0.515	0.98	27	0.260	0.262	0.77
8	0.880	0.853	3.07	18	0.040	0.042	5.00	28	0.11	0.111	0.91
9	0.070	0.072	2.86	19	0.180	0.178	1.11	29	0.350	0.351	0.29
10	0.280	0.276	1.43	20	0.050	0.051	2.00	30	0.180	0.177	1.67
11	0.060	0.062	3.33	21	0.220	0.217	1.36				

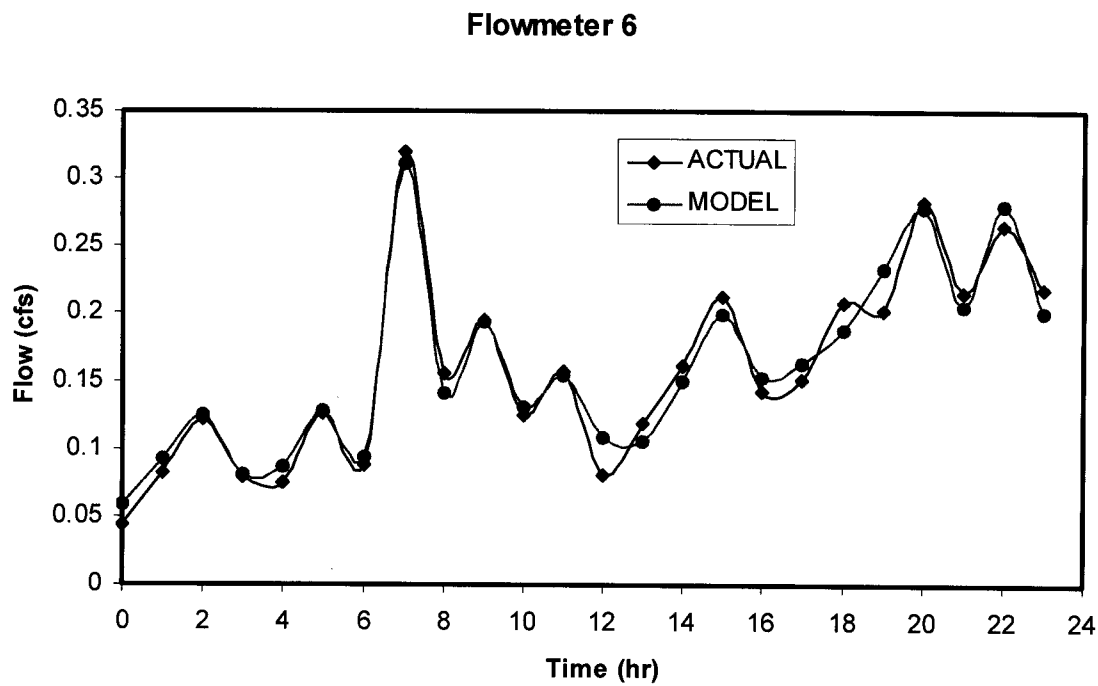


Figure 4.5 Comparison of Modeled and Actual Flow - Flowmeter 6

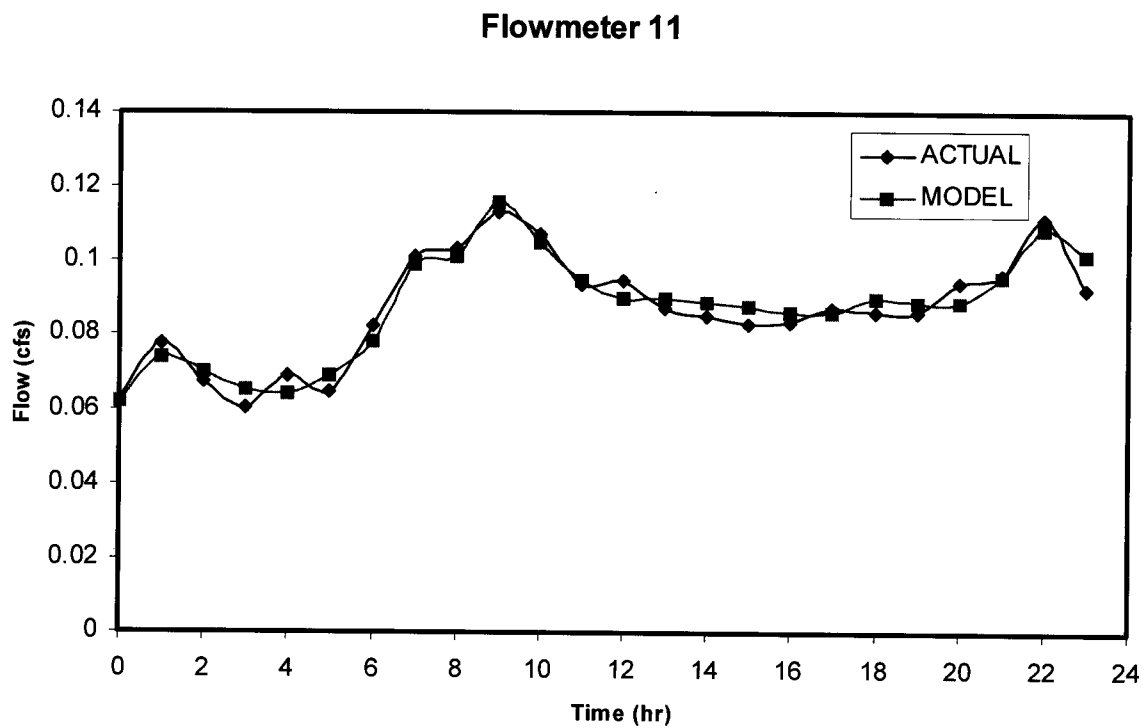


Figure 4.6 Comparison of Modeled and Actual Flow - Flowmeter 11

4.4.2 Wet-Weather Flows

The wet weather calibration involves simulation of observed rainfall data to produce a hydrograph of flow and manhole hydraulic grade line (HGL) for the conduit containing the monitoring equipment. The model output is then graphically compared to observed data.

The wet weather flow calibration begins with the development of runoff model to estimate RDII. The XP-SWMM software was used to develop the runoff model to simulate the response of the sanitary collection system to sanitary, groundwater, and rainfall derived flows. Once constructed and calibrated, the runoff model was used to project flows under wet weather conditions for existing conditions.

4.4.2.1 Runoff Modeling Approach

Simulating RDII using XP-SWMM runoff requires the specification of sub basin characteristics that result in correct RDII. These sub basin characteristics do not have any physical significance, but they allow simulation of RDII using runoff calculation formulations. The parameters specified include sub basin area and percent imperviousness. The sub basin area was calculated as the surface area of the sewer tributary area to the inflow point in the model. The percent imperviousness is used to represent the ratio of RDII volume in feet to rainfall depth in feet. The percent imperviousness is a dimensionless parameter and is equivalent to runoff coefficient.

The percent imperviousness value was determined by analysis of flow monitoring data. After separating the rainfall-induced flow for a number of storms, RDII volumes were calculated and plotted versus rainfall depth. The slope of the correlation line gives an estimate of the percent imperviousness. Typically, a sanitary sewer system in good condition will have percent imperviousness values of less than 0.01. Approximately, fifty percent of the flow monitoring sites have percent imperviousness values greater than 0.01.

The ultimate goal of the wet weather flow calibration was for the modeled data to match the storm peaks from the 2006 flow monitoring data. To avoid significant errors in projection the model was calibrated over approximately one full wet season of flow data. It is highly probable that flows measured in such conditions will reflect the peaks that can occur under wet antecedent conditions. The storm event used for wet weather calibration occurred on March 20, 2006, April 21, 2006 and April 30, 2006. Once the model was loaded with existing BWF, GWI and RDII, the hydraulics were analyzed to verify that the correct peak flows were being predicted at each flow monitor location. Parameters such Manning's roughness coefficient, infiltration parameters and sub basin width were adjusted to calibrate the model.

Figures 4.7 and 4.8 compare the observed and modeled flows for two monitoring sites. The calibration results show a reasonable agreement between observed and modeled flows at all the flow monitoring sites.

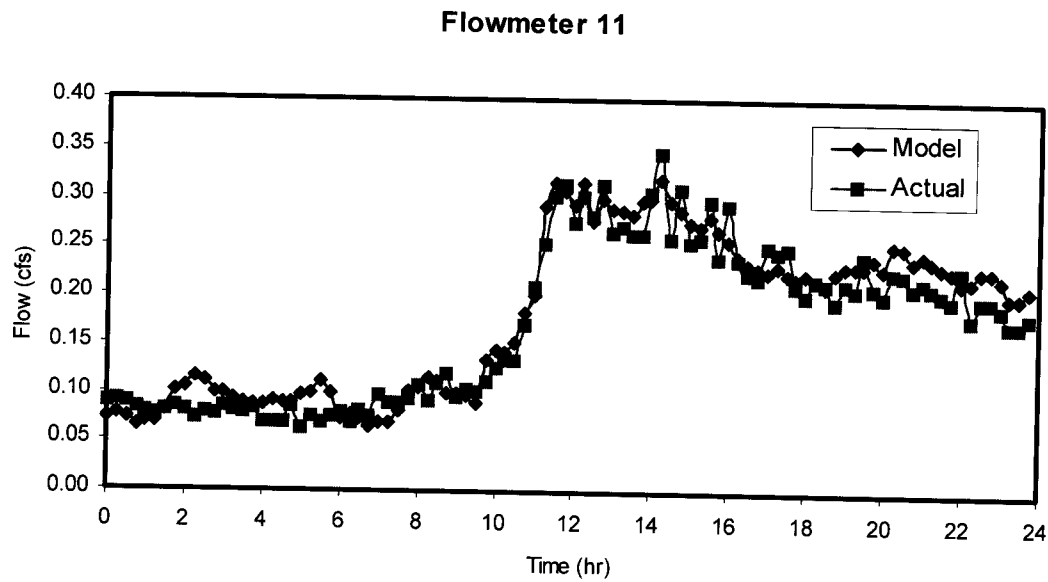


Figure 4.7 Wet Weather Flow Calibration Results (04/30/2006) - Site 11

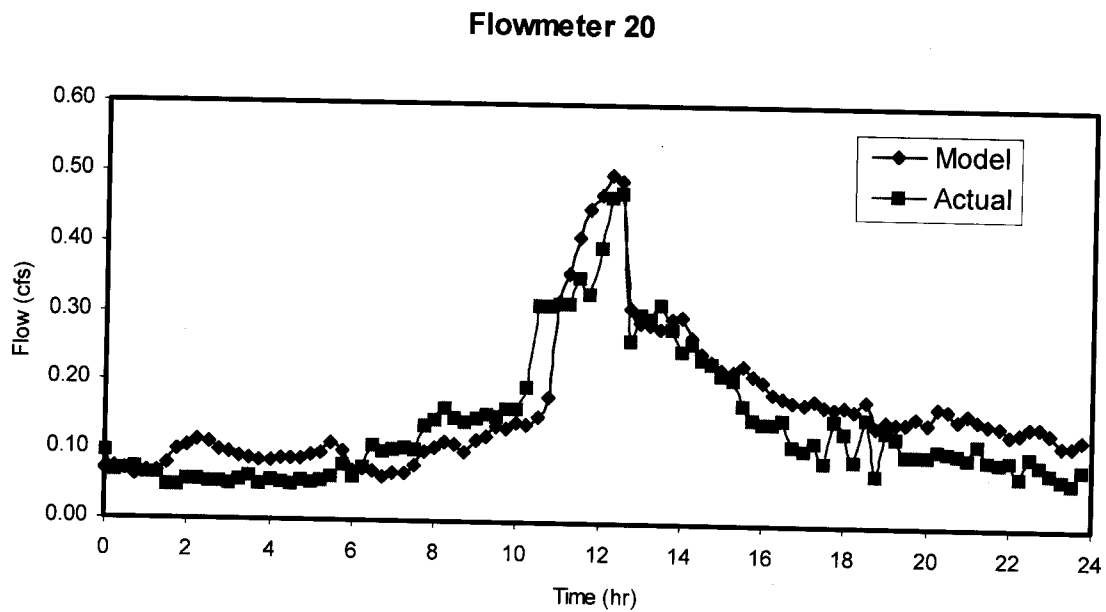


Figure 4.8 Wet Weather Flow Calibration Results (04/30/2006) - Site 20

4.5 CAPACITY ANALYSIS

A capacity analysis of the modeled collection system was performed upon completion of the dry and wet weather flow calibrations. The capacity analysis entailed identifying areas in the collection system where flow restrictions occur or where pipe capacity is insufficient to pass peak wet weather flows. This section presents the results of hydraulic analysis of the existing collection system under existing and build-out flow conditions. Deficiencies in the City's service area were evaluated using a dynamic computer model. The model calculates sanitary sewer system flows for existing and future conditions based on land use, population, and RDII, and compares the flows to the capacity of each modeled pipe in the system. Pipe segments whose calculated capacity is less than their predicted flow are identified in this report as "deficient" or "inadequate." Based on the hydraulic analysis, a preliminary capital improvement program is developed.

4.5.1 Design Storm Selection

A design storm was developed to estimate the peak wet weather flow in the system and to provide information to perform the capacity analysis. Design storms are "synthetic" rainfall events based on historical rainfall data used to analyze the performance of a collection system under peak flows and volumes. The design storm has a specific recurrence interval and rainfall duration.

Development of a design storm is based on rainfall intensity, pattern, and volume. Analysis of these parameters is crucial in providing a realistic design storm for the City, thus a higher design standard for the collection system is an inefficient use of resources. Based on U.S. Department of Agriculture, Soil Conservation Service Technical Publication 40, (TP 40), rainfall intensity-duration and frequency curves were developed for the City of Meridian. These curves were used to estimate the frequency of the measured rainfall data. Appendix D contains detailed description on the development of the design storms for this analysis. The rainfall intensity-duration relationships developed for the Meridian area are presented in Table 4.6.

Table 4.6 Rainfall Depth - Duration - Frequency Relationship Wastewater Collection System Rehabilitation Program City of Meridian, MS							
Return Period	Rainfall Intensity (in/hr)						
	30 Min	1 Hr	2 Hrs	3 Hrs	6 Hrs	12 Hrs	24 Hrs
1	2.90	1.80	1.10	0.80	0.47	0.28	0.18
2	3.30	2.10	1.25	1.10	0.58	0.35	0.20
5	4.20	2.60	1.60	1.17	0.75	0.43	0.26
10	4.40	2.80	1.85	1.33	0.83	0.51	0.30
25	5.20	3.20	2.00	1.50	0.98	0.59	0.33
50	5.60	3.60	2.25	1.67	1.13	0.68	0.37
100	6.40	3.80	2.50	1.83	1.18	0.75	0.43

The rainfall periods used to calibrate the hydraulic model occurred on April 30, 2006, April 4, 2006 and April 30, 2006. During these periods, the greatest continuous 24-hour volume was less than the 5-year storm event determined by statistical analysis. However, additional analysis was performed on historic dry and wet weather flow data. Based on this data, it was determined that the calibration storm was approximately a 5-year storm event.

4.5.2 Collection System Model Analysis

The collection system was modeled and analyzed using the 5-year 24-hour design storm to determine the system capacity deficiencies. The capacity analysis was performed for the existing land use condition and the build-out scenario. Within the model, the design storm produces RDII flows. A combination of RDII and dry weather flows is routed through the collection system hydraulic model. The hydraulic model determines which pipelines in the collection system are unable to convey the peak wet weather flows caused by the design storm.

4.5.2.1 Hydraulic Evaluation Criteria

The hydraulic evaluation criteria present the guides used to evaluate the existing collection system. Using these guides, solutions were formulated for each alternative by solving conveyance and overflow problems in the collection system. These guides consist of design objectives, design criteria and physical constraints. Using these guides, capital improvements were developed and cost estimates completed as presented in this report.

4.5.2.1.1 *Existing and Future System Evaluation Criteria*

The capacity and performance of the existing system and future system scenarios was evaluated based on the following criteria:

- **Pipe surcharge:** Pipe surcharge occurring during the 5-year wet weather event design conditions should be eliminated. Under dry weather conditions, a depth to diameter (d/D) value less than 50 percent is desirable. Under the 5-year wet weather design conditions, a d/D ratio should not exceed 100 percent. Capacity limiting problems were identified at all pipes that exceeded these threshold values. Siphons and adjacent pipes are noted as exception to this rule.
- **Sanitary sewer overflows (SSOs):** Sanitary sewer overflows occurring during the 5-year wet weather design conditions should be eliminated. SSOs are noted as “flooding” or “flooded structures” in the model.
- **Pipe Velocity:** Flow velocities should be maintained between 2 and 10 feet per second (fps). Velocities less than 2 fps could cause solids to settle out of the wastewater and that could lead to clogged pipes and system backups. Additionally, an accumulation of solids may trap organic solids, increase detention time and promote sulfide generation. Velocities greater than 10 fps require special protection against erosion and impact. Flow velocities were evaluated under dry and wet weather conditions.

Sewer reaches exhibiting less than minimum velocity in the model was not used as a sole criterion to “trigger” pipe reaches with hydraulic problems for two reasons. First, sewers exhibiting less than minimum velocity but are not surcharged have sufficient hydraulic capacity to pass the design storm flows. Second, correcting the minimum velocity problem requires constructing a new larger pipe and/or increasing the pipe slope. Replacement of a sewer pipe that otherwise has sufficient hydraulic capacity simply to resolve a minimum velocity and potential solids deposition problem is very costly. Solids deposition can be controlled by preventive maintenance at a much lower cost than reconstructing portions of the collection system.

The options of replacement and upsizing of existing sewers was considered in all situations and implemented where deemed appropriate.

4.5.2.2 Model Scenarios

The collection system was evaluated to identify inadequacies and problem areas. The system capacity was evaluated to determine what pipe or pump was potentially limiting collection system efficiency. Evaluation of the efficiency of the collection system was based on capacity of the pipes under dry weather and wet weather flow conditions. Capacity was illustrated using a d/D ratio. Velocity related problems were also identified.

A total of four model scenarios were developed to analyze the City’s sewer collection system. These model scenarios are summarized below in Table 4.7.

Table 4.7 Model Scenarios Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Scenario	Description
EX-DWF	Existing conditions dry weather flow
EX-WWF 5-YR-24 HR-SCS II	Existing condition wet weather flow 5-year, 24-hour SCS Type II Storm Inflow and Infiltration
FUT-DWF	Future conditions dry weather flow
FUT-WWF 5-YR-24 HR-SCS II	Future condition wet weather flow 5-year, 24-hour SCS Type II Storm Inflow and Infiltration

4.5.2.3 EX-DWF Results

The existing system was evaluated under dry weather flow conditions to identify inadequacies and problem areas. The model was examined during the daily peak hour, which occurred daily at approximately 9:00 a.m.

Model simulations of the existing conditions indicated that SSOs did not occur during dry weather flows. All pipes were running well below maximum capacity. Under dry weather flow, a general rule-of-thumb says the d/D ratios should be less than 0.5.

Low flow velocities were abundant under dry weather flow conditions. Velocities greater than 2 fps occurred in approximately 59,602 feet or 18 percent of the modeled pipes. Locations of pipes with velocities less than 2 fps are shown on Figure 4.9. Results of the monitoring program indicated low flow velocities were a constant problem in much of the system. High flow velocities exceeding 10 fps did not cause problems under dry weather flow conditions.

4.5.2.4 EX-WWF 5-YR-24 HR-SCS II Results

The model was run under wet weather design flows to assess capacity, SSOs and velocity related problems. Design flow conditions from a 5-year, 24-hour SCS Type II design storm were applied to the dry weather flows. The model was examined during the design flow peak hour, which occurred between model hour 12:00 and 13:00. At this time, the peak flow from the design storm produced the maximum hydraulic stress to the system.

The model results indicate that no SSOs occurred under the 5-year, 24-hour SCS Type II design storm conditions. Pipe with d/D values that exceeded 1.0 are listed in Table 4.8 and the relative locations of these pipes are displayed in Figure 4.10.

System velocities were evaluated under wet weather flow conditions. Flow velocities less than 2 fps or greater than 10 fps were found to be a problem under wet weather design flow conditions.

4.5.2.5 FUT-DWF Results

The existing system was evaluated under future dry weather flow conditions to identify inadequacies and problem areas. The model was examined during the daily peak hour, which occurred daily at approximately 9:00 a.m.

Model simulations of the existing conditions indicated that SSOs did not occur during dry weather flows. All pipes were running well below maximum capacity. Under dry weather flow, a general rule-of-thumb says the d/D ratios should be less than 0.5.

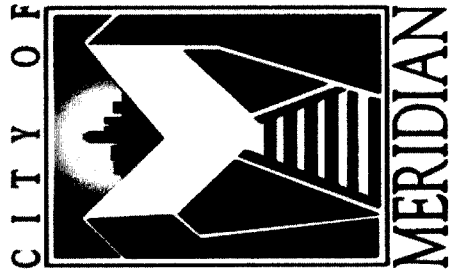
System velocities were evaluated under wet weather flow conditions. Flow velocities less than 2 fps or greater than 10 fps were found to be a problem under wet weather design flow conditions.

4.5.2.6 FUT-WWF 5-YR-24 HR-SCS II Results

The model was run under future wet weather design flows to assess capacity, SSOs and velocity related problems. Design flow conditions from a 5-year, 24-hour SCS Type II design storm were applied to the dry weather flows.

The model results indicate that no SSOs occurred under the 5-year, 24-hour SCS Type II design storm conditions. Pipe with d/D values that exceeded 1.0 are listed in Table 4.8 the relative locations of these pipes are displayed in Figure 4.10.

System velocities were evaluated under wet weather flow conditions. Flow velocities less than 2 fps or greater than 10 fps were found to be a problem under wet weather design flow conditions.



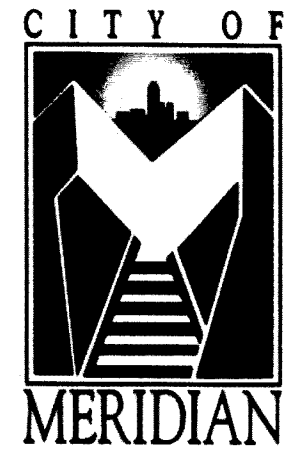
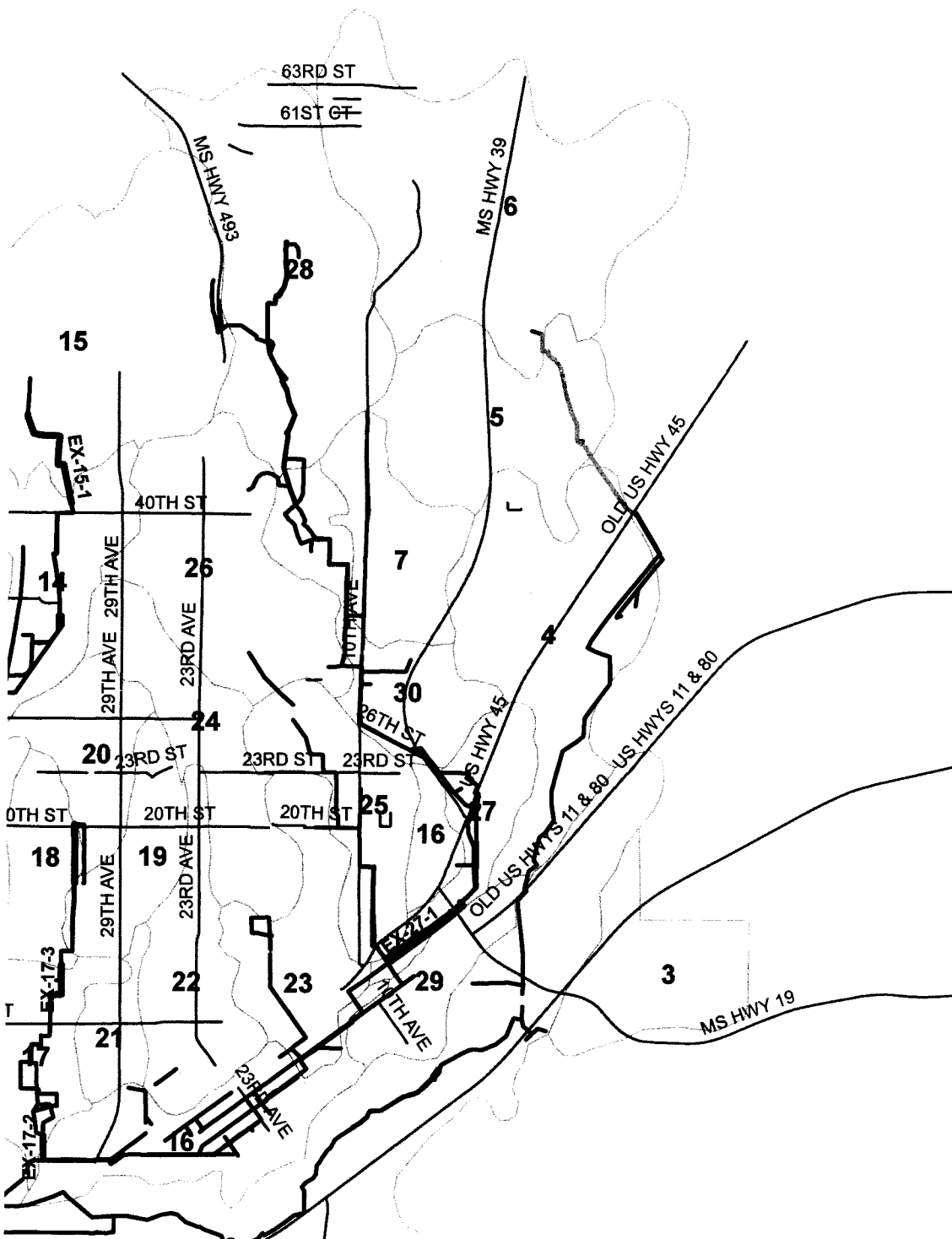
Legend

Model Pipe

Vel. Greater Than 2 fps

Meter Basins





Legend

- EX-8-1
- EX-27-1
- EX-18-1
- EX-17-3
- EX-17-2
- EX-17-1
- EX-15-1
- EX-13-1
- EX-12-1
- EX-10-3
- EX-10-2
- EX-10-1
- EX-1-1
- FUT-5-1
- Meter Basins



**Table 4.8 Hydraulically Deficient Pipe Segments
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Problem ID	Basin	Manhole		General Location	Diameter (in)	Length (ft)	d/D
		Upstream	Downstream				
EX-17-1	17	G27-179	G27-177	Along 34th Ave. between 12th St. and 11th St.	12	345.9	1.24
EX-10-1	10	E28-009	LS-AT	About 1,500 ft east of MS Hwy 19 and N. HILL St.	16	3119.0	1.47
EX-8-1	8	F25-036	F25-030	About 600 ft north of I29 and 49th St., between 5	24	1431.4	1.68
EX-10-2	10	F30-175	F30-158	East of Oak Dr. between Bounds Rd. and Spruce St.	10	1199.8	1.43
EX-10-3	10	F31-070	F30-185	300 ft east of Bounds Rd. and 62nd Ave. 17th St. a	10	999.6	1.35
EX-20-1	20	G29-032	G28-053	Along 33rd Ave., between 17th St. and 21st St.	10	1430.5	1.29
EX-12-1	12	G25-017	G25-015	East of 49th St., between 1st St. and Front Rd.	18	1164.5	1.21
EX-1-1	1	G25-043	G25-029	North of I20 between 49th Ave. and 31st Ave.	24	1005.6	1.16
EX-17-2	17	G26-268	G25-078	Along 36th Ave., between 2nd St. and Interchange	27	593.5	1.19
EX-27-1	27	I28-069	I27-080	North of 8th Ave., between B St. and US Hwy 45	15	2390.1	1.26
EX-13-1	13	G28-152	G26-128	Along 45th Ave., between 14th St. and 5th St.	24	3556.4	1.33
EX-17-3	17	G27-183	G27-163	Along 34th St. between 12th St. and 10th St.	12	1004.1	1.41
EX-15-1	15	G32-078	G31-131	Along 34th Ave., 35th Ave. and 36th Ave.	10	2927.1	1.27
FUT-5-1	5	J33-004	J31-050	Between N. Hills St. and Old US Hwy 45	10	5027.0	1.78

4.5.3 Existing System Recommendations

Recommendations are made for improvements to the existing system in order to eliminate problems identified. These recommendations include increase pumping capacity, increase conveyance capacity and implementation of a sewer-flushing program.

4.5.3.1 Pumping Capacity

The model results and a separate pump stations analysis shows the pump capacities of pump stations identified as LS-AN(Red Lobster) and LS-AT(65th Ave) should be increased to accommodate the existing design storm flows. Detailed analysis and recommendations for these pump stations are presented in section 3.

4.5.3.2 Conveyance Capacity

Increased conveyance is required in nine basins to eliminate system surcharge. When additional capacity is required, existing sewers can be replaced or paralleled. Most of the recommendations presented in this master plan are based on replacing existing undersized pipe with pipe sized to convey the projected peak flows. This is the preferred alternative for most undersized pipe

conditions. In some situations, other alternatives may be available, including basin (gravity and pumping) transfers, and the use of parallel pipes. The latter approach was not used in this master plan, but should be considered during pre-design if the existing pipe is determined to be in good condition.

For the purposes of this master plan, it was assumed that a deficient existing sewer would be replaced with a larger pipeline at the same slope as the existing pipeline. The criteria used to determine whether an existing pipeline should be replaced were based on the pipeline's capacity to convey peak wet weather flow during the 5-year, 24-hour design storm event.

Based on simulation results, a number of pipelines require improvements for existing and future conditions during the 5-year, 24-hour design storm. Several of the pipelines that require improvements for existing conditions will also require improvements during future conditions, albeit with a larger diameter. It is recommended that the larger diameter be constructed so that these pipelines will have sufficient capacity not only for existing but also for future conditions. A second phase of construction at a later date to account for deficiencies during future conditions would not be cost effective.

Table 4.9 presents a summary of the improvements required during existing and future conditions. The proposed pipe diameter represents the ultimate diameter in cases where further upsizing for build-out conditions was required.

4.5.3.2.1 Basin 17

Under existing conditions, majority of the sewer system modeled for the Basin 17 is hydraulically adequate. Three pipe segments; EX-17-1, EX-17-2 and EX-17-3 show surcharging conditions. The d/D values for these hydraulically deficient pipe segments ranged between 1.19 and 1.41.

Under future conditions, the analysis indicates the surcharging identified under existing conditions will increase but no risk of overflows. It is recommended that the three pipe segments be upsized as shown in Table 4.9.

4.5.3.2.2 Basin 10

Under existing conditions, three pipe segments; EX-10-1, EX-10-2 and EX-10-3 show surcharging conditions. The d/D for these hydraulically deficient pipe segments ranged between 1.35 and 1.47.

Under future conditions, the analysis indicates the surcharging identified under existing conditions will increase but no risk of overflows.

It is recommended that the three pipe segments be upsized as shown in Table 4.9.

4.5.3.2.3 Basin 8

Pipe segment EX-8-1, located between east of MS Hwy 19 and N. Hills St. is slightly surcharged under existing conditions. Simulation results indicate the surcharging will worsen under future flow conditions if no action is taken.

Table 4.9 Recommendations for Hydraulically Deficient Pipes Wastewater Collection System Rehabilitation Program City of Meridian, MS							
Problem ID	Basin	Manhole		General Location	Diameter (in)		Length (ft)
		Upstream	Downstream		Existing	Proposed	
EX-17-1	17	G27-179	G27-177	Along 34th Ave. between 12th St. and 11th St.	12	18	345.9
EX-10-1	10	E28-009	LS-AT	About 1,500 ft east of MS Hwy 19 and N. HILL St.	16	21	3119.0
EX-8-1	8	F25-036	F25-030	About 600 ft north of I29 and 49th St., between 5	24	30	1431.4
EX-10-2	10	F30-175	F30-158	East of Oak Dr. between Bounds Rd. and Spruce St.	10	18	1199.8
EX-10-3	10	F31-070	F30-185	300 ft east of Bounds Rd. and 62nd Ave. 17th St. a	10	18	999.6
EX-20-1	20	G29-032	G28-053	Along 33rd Ave., between 17th St. and 21st St.	10	18	1430.5
EX-12-1	12	G25-017	G25-015	East of 49th St., between 1st St. and Front Rd.	18	24	1164.5
EX-1-1	1	G25-043	G25-029	North of I20 between 49th Ave. and 31st Ave.	24	30	1005.6
EX-17-2	17	G26-268	G25-078	Along 36th Ave., between 2nd St. and Interchange	27	36	593.5
EX-27-1	27	I28-069	I27-080	North of 8th Ave., between B St. and US Hwy 45	15	24	2390.1
EX-13-1	13	G28-152	G26-128	Along 45th Ave., between 14th St. and 5th St.	24	36	3556.4
EX-17-3	17	G27-183	G27-163	Along 34th St. between 12th St. and 10th St.	12	21	1004.1
EX-15-1	15	G32-078	G31-131	Along 34th Ave., 35th Ave. and 36th Ave.	10	18	2927.1
FUT-5-1	5	J33-004	J31-050	Between N. Hills St. and Old US Hwy 45	10	18	5027.0

This pipe segment should be upsized to 30 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.4 Basin 20

Pipe segment EX-20-1, located along 33rd Ave. between 17th St. and 21st St. is slightly surcharged under existing conditions. Simulation results indicate the surcharging will worsen under future flow conditions if no action is taken. This pipe segment should be upsized to 18 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.5 Basin 12

Pipe segment EX-12-1 is hydraulically deficient for both existing and future conditions flows. This pipe segment should be upsized to 24 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.6 Basin 1

Pipe segment EX-1-1 shown on Figure 4.17 is hydraulically deficient for both existing and future conditions flows. This pipe segment should be upsized to 30 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.7 Basin 27

Under existing conditions, majority of the sewer system modeled for the Basin 27 is hydraulically adequate. One pipe segment; EX-27-1 shows surcharging conditions under existing and future flow conditions. This hydraulically deficient pipe should be upsized to 24 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.8 Basin 13

Pipe segment EX-13-1, located along 45th Ave. between 14th St. and 5th St. is surcharged under existing conditions. Simulation results indicate the surcharging will worsen under future flow conditions if no action is taken. This pipe segment should be upsized to 36 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.9 Basin 15

Under existing conditions, majority of the sewer system modeled for the Basin 15 is hydraulically adequate. One pipe segment; EX-15-1 shows surcharging conditions under existing and future flow conditions. This hydraulically deficient pipe should be upsized to 18 inches to alleviate the existing and future conditions surcharging.

4.5.3.2.10 Basin 5

Under existing conditions, all of the sewer system modeled for the Basin 5 is hydraulically adequate. However, under future flow conditions, one pipe segment; FUT-5-1 shows surcharging

conditions. This hydraulically deficient pipe should be upsized to 18 inches to alleviate the future conditions surcharging.

4.5.3.3 Sewer Flushing Program

Low flow velocities, less than 2 fps, were prevalent throughout the modeled system. Low flow velocities cause debris to deposit in the sewers. Sludge, sand and other debris that have settled can effectively be removed through a sewer-flushing program. The flushing program requires high velocity of problem pipes up to 30 inches. All pipes in the existing system identified as having flow velocities less than 2 fps are shown on Figure 4.9. It is suggested that this figure be used as a guide for staff to target these problem areas.

4.5.3.4 RDII Reduction Plan

The capacity problems identified under the wet weather flow conditions stem primarily from excess RDII. RDII reduces the ability of sanitary sewer systems and treatment facilities to transport and treat domestic and industrial wastewater. There are various costs associated with RDII including sanitary sewer system overflow, wastewater treatment and transportation facilities, and funding opportunities. Additionally, sewer system backups into basements or households can result in litigation and potential liabilities for the responsible city or agency.

Capacity limitations caused by RDII can be managed either by reducing the RDII, conveying the excess flow through larger sewers and storage basins, or a combination of these two basic approaches. Eliminating inflow sources is normally the cheapest and quickest control measure. Infiltration control can be costly and is generally accomplished by repairing or replacing sewer mains and/or laterals. Expansion of sewage conveyance and storage capacity can also be expensive and is normally accomplished by eliminating bottlenecks with relief sewers or larger pump stations, or by constructing off-line storage for excess flow.

A RDII reduction plan consisting of a series of simulation runs was developed to determine tradeoffs between RDII reductions as compared to construction of increased sewer capacity. The analysis uses the calibrated hydraulic model to characterize the current RDII response at basin-scale. Conceptual reductions in RDII were then analyzed to predict the effectiveness of the reduction efforts. It was not the goal of this analysis to determine if it is cost-effective to pursue RDII reduction.

In conjunction with wet weather hydrographs, flow projections were used to produce various scenarios to evaluate three RDII reduction targets. The RDII reduction target levels ranged from 10 to 20 percent. The results show that if RDII reduction is found to be cost-effective, RDII reduction of between 15 and 20 percent will reduce observed surcharging by about sixty percent. The detailed results of all the five simulation runs are presented in Appendix D. It is suggested that independent study of the cost-effectiveness of RDII reduction be performed.

PUMP STATION EVALUATION

Carollo Engineers evaluated the City's existing sewer pump stations. The City currently maintains and operates 61 sewer pump stations including 3 pump stations serving the Naval Air Station. Activities performed during the pump station evaluation include:

1. Development of a pump station asset database.
2. Updates to the City's GIS database including new force main locations, pump station locations, and pump station service areas.
3. Determination of pump station flow dependency.
4. Hydraulic modeling of flows to each pump station.
5. Assessment of pump station operational capacity.

5.1 PUMP STATION ASSET DATABASE

A pump station asset database was developed as part of the City's Wastewater Master Plan. The City's preliminary list of pump stations was modified according to existing City records and interviews with City staff. This process involved the removal of some pump stations from the City's pump station list and addition of others. The current pump station inventory includes information that was readily available from City records and information gathered from staff testimony. Pump station inspections were not part of the scope of this project, so the pump station database is not comprehensive. The database will benefit from information gathered during future pump station inspections by City staff or future studies. In all, the City is responsible for 61 pump stations including 3 pump stations serving the Naval Air Station. A summary of the updated pump station inventory is shown in Table 5.1 with the full inventory located in Appendix C.

Table 5.1 Summary of Pump Station Inventory Wastewater Collection System Rehabilitation Program City of Meridian, MS				
PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
1	8th Ave. North	8th Ave.	M41	LS-BT
2	8th Place	Windmill Sub Division	M15	LS-CG
3	9th Ave.	5th St. & 9th Ave. (Near Front St. and 10th Ave)	M25	LS-BS
4	10th Ave. North	Windmill Sub Division	M49	LS-CH
5	11 Ave	11 Ave. & Windmill Dr.	M04	LS-CJ
6	22 Ave. Heights	Causeyville Rd.	M21	LS-BY

**Table 5.1 Summary of Pump Station Inventory
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
7	27th Place	27th Street	M02	LS-BW
8	31 Ave. South	31 Ave. South	M19	LS-BZ
9	38th St.	38th St. & 24th Ave.	M48	LS-BJ
10	56th Court	56th Court and Dogwood Hills	M39	LS-BV
11	61st Court	61 Court	M37	LS-BU
12	65th Ave.	65th Ave.	M43	LS-AT
13	70th Place	Old 8th St.Rd.	M44	LS-AH
14	A Ave.	2213 A Ave.	M27	LS-BX
15	Air Port Lift Station	Highway 11 South	M12	LS-AA
16	Chandler Rd. #1	Chandler Rd. & Bounds Rd.	M11	LS-AR
17	Chandler Road #2	North End of Chandler Rd		LS-AS
18	Cotton Gin Rd.	Cotton Gin Rd. & Red Baron Rd. (flows to East WWTP)	M47	n/a
19	Days Inn	Highway 80 East	M24	LS-AQ
20	Dogwood Dr.	Dogwood Dr.	M33	LS-BR
21	Highway 39 #1	Highway 39 North		LS-BP
22	Highway 39 #2	Highway 39 North	M35	LS-BO
23	Hwy 19 S #1	890 Hwy 19 S, (near Mitchum Rd. & Hwy 19 S)		LS-AO
24	Hwy 19 S #2	992 Hwy 19 S, (near Bonita Dr & Hwy 19 S)		LS-BH
25	Hwy 493	6210 Hwy 493, near a new Church, 0.6miles north of 56th Ct & Hwy 493		LS-BI
26	James River	Virginia Dr.	M31	LS-BM
27	Knight Parker Rd.	Knight parker rd & Old US HWYS 11 & 80	M54	LS-CB
28	La La	900 Frontage Rd.	M18	LS-BL
29	Lindley Rd.	Lindley Rd.	M08	LS-BK
30	Lockhart Trailer Park Rd.	Lockhart Trailer Park Rd. (Flows to Cottin Gin Rd LS)	E9	n/a

Table 5.1 Summary of Pump Station Inventory Wastewater Collection System Rehabilitation Program City of Meridian, MS				
PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
31	Lovers Ln.	Old 80th St. Rd. & Lovers Ln.	M52	LS-AG
32	Lower Bounds Rd.	Chandler Rd.	M42	LS-AL
33	MCC	1435 College Drive	M01	LS-AK
34	N.A.S. Air Station	N.A.S. GATES (flows to Lockhart Trailer Park Rd. LS)	E8	n/a
35	Newell Rd. #1	Newell Rd.	M40	LS-BG
36	Newell Rd. #2	Newell Rd.	M06	LS-AI
37	Newell Rd. #3	Newell Rd.	M05	LS-BF
38	North East Softball	Newell Rd.	M07	LS-CE
39	North Hills St.	6520 North Hills St.	M34	LS-AE
40	North West School	35 Street	M03	LS-BE
40	North Wood Common	North Wood Common Cir.	M10	LS-BD
42	North Wood East	10 Ave.	M09	LS-BC
43	North Wood East Apt.	Highway 39 North	M38	LS-BB
44	Old 80 #1 Station	6900 Old 80 West	M17	LS-AF
45	Old 80 #2 Station	West of town near Railroad Tracks, near I-20 and Old US Hwy 80	n/a	LS-AW
46	Old 80 #3 Station	West of town by Prison Gates, near I-20 and Old US Hwy 80	n/a	LS-AV
47	Old 80 East Industrial Park	On US Hwys 11 & 80 between Us Hwy 45 and W Malone Ranch Rd, Inside Industrial Park	n/a	LS-CC
48	Pancake Field	19th St.	M20	LS-BA
49	Pippins Rd.	Bonita Dr. & Pippin Rd	E7	LS-CD
50	Red Lobster	Bonita Dr., South Frontage Road	M22	LS-AN
51	River Birch LS	Highway 19 North & 67 Ave. Loop (behind Colonial Storage on River Birch Drive)	M53	LS-CM
52	South Industrial Park	Highway 11 South	M46	LS-AP

Table 5.1 Summary of Pump Station Inventory Wastewater Collection System Rehabilitation Program City of Meridian, MS				
PS No.	PS Name	Location Description	City's File Ref	GIS Ref ID
53	Sowashee Creek	on Old US Hwy 11 & 80 near WMOX radio Station	M56	LS-CA
54	St. John	at the end of 27th Ave., between St John St. and Sowashee Creek?	n/a	LS-AZ
55	Sweet Gum Bottom Rd.	n/a	n/a	LS-CN
56	The Commons	North of Windmill Dr. at Old Poplar Springs Dr and 69th CT.	M55	LS-CI
57	Tom Bailey Dr.	Highway 11 & 80	M26	LS-AB
58	Tom Regan Rd.	65th Ave.	M45	LS-AD
59	Tommy Webb Dr.	Tommy Webb Dr.	M13	LS-CK
60	Village Fair Mall	North Frontage Rd.	M28	LS-CL
61	Windmill Dr.	Windmill Dr.	M16	LS-CF

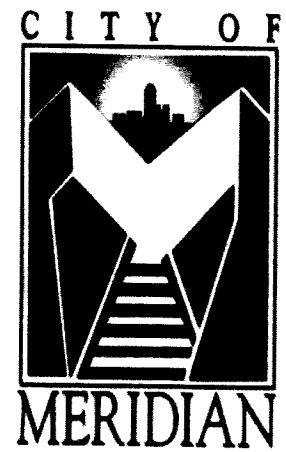
5.2 GIS DATABASE OF PUMP STATION AND FORCE MAIN LOCATIONS

Each pump station location was entered into the City's GIS database except for the three pump stations serving the Naval Air Station. Several force mains were also added to the GIS database and some sewer mains re-routed according to City staff interviews. The location of each pump station is shown in Figure 5.1.

Pump station service area polygons were added to the City's GIS database. The pump station service area polygons were used to estimate Inflow and Infiltration (I/I) rates to each pump station and calculate the linear footage of sewer mains located in each basin. Details of the I/I estimation are covered in Section 5.4. Each of the pump station service areas are shown in Figure 5.2.

5.3 PUMP STATION FLOW DEPENDENCY

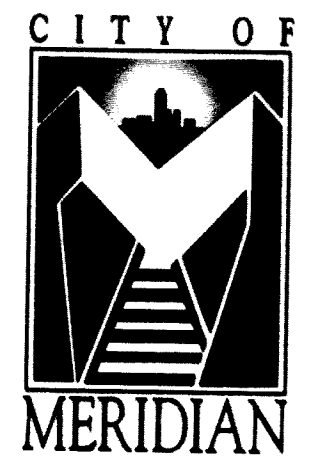
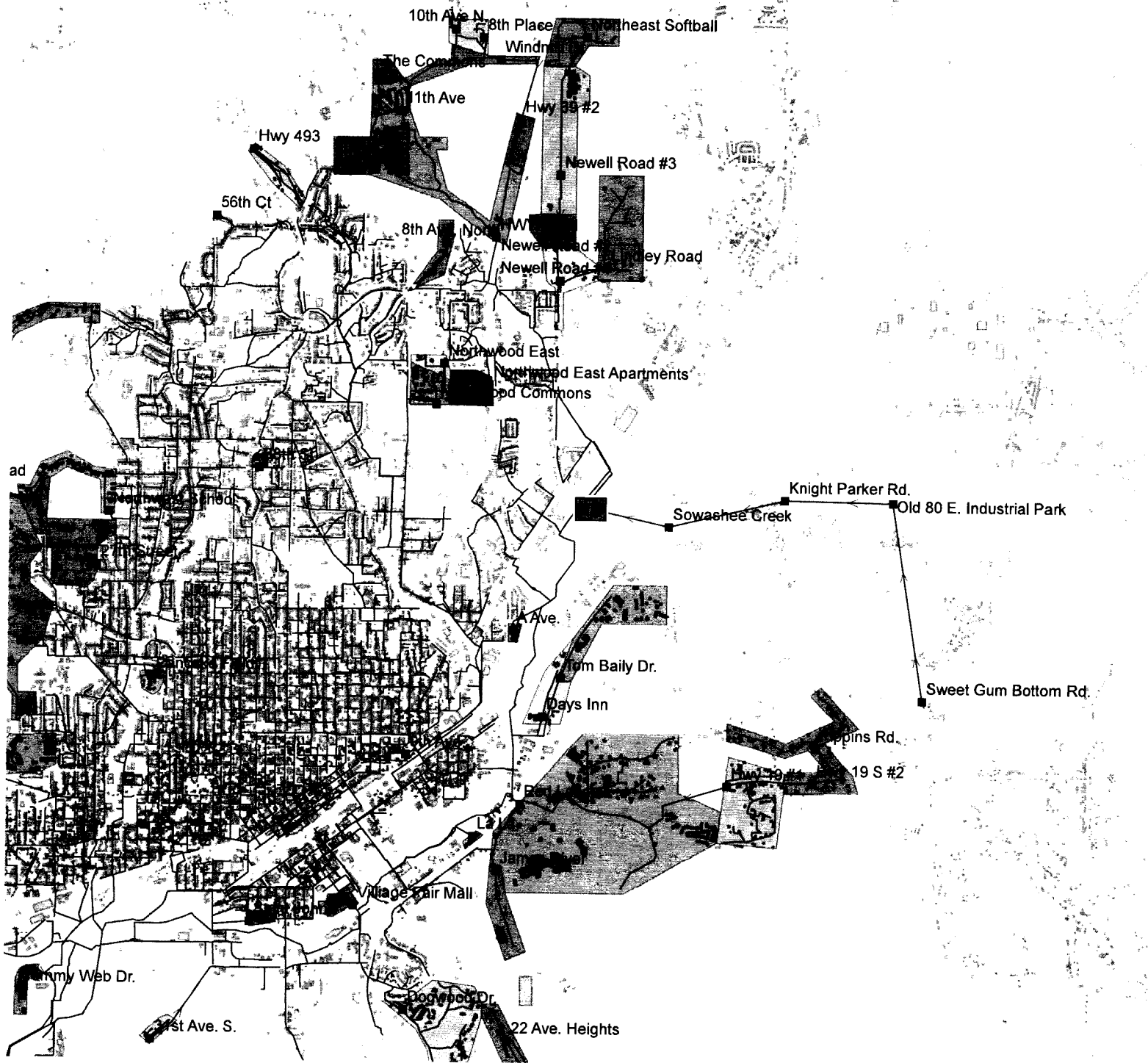
Since some pump stations are in series with other pump stations, the dependencies of upstream pump stations were examined for operational issues based on combined pumping flow rates. This required knowledge of the location of each force main. Many force main locations were already known, but City staff testimony provided the location of the remaining force mains. These additional force mains were added to the City's GIS. This allowed the pump station dependencies to be established. The pump stations that have two or more upstream pump stations in series are shown in Figure 5.3 along with their respective rated pumping capacity.



Legend

- Roads
- Wastewater Treatment Plant
- Pump Station










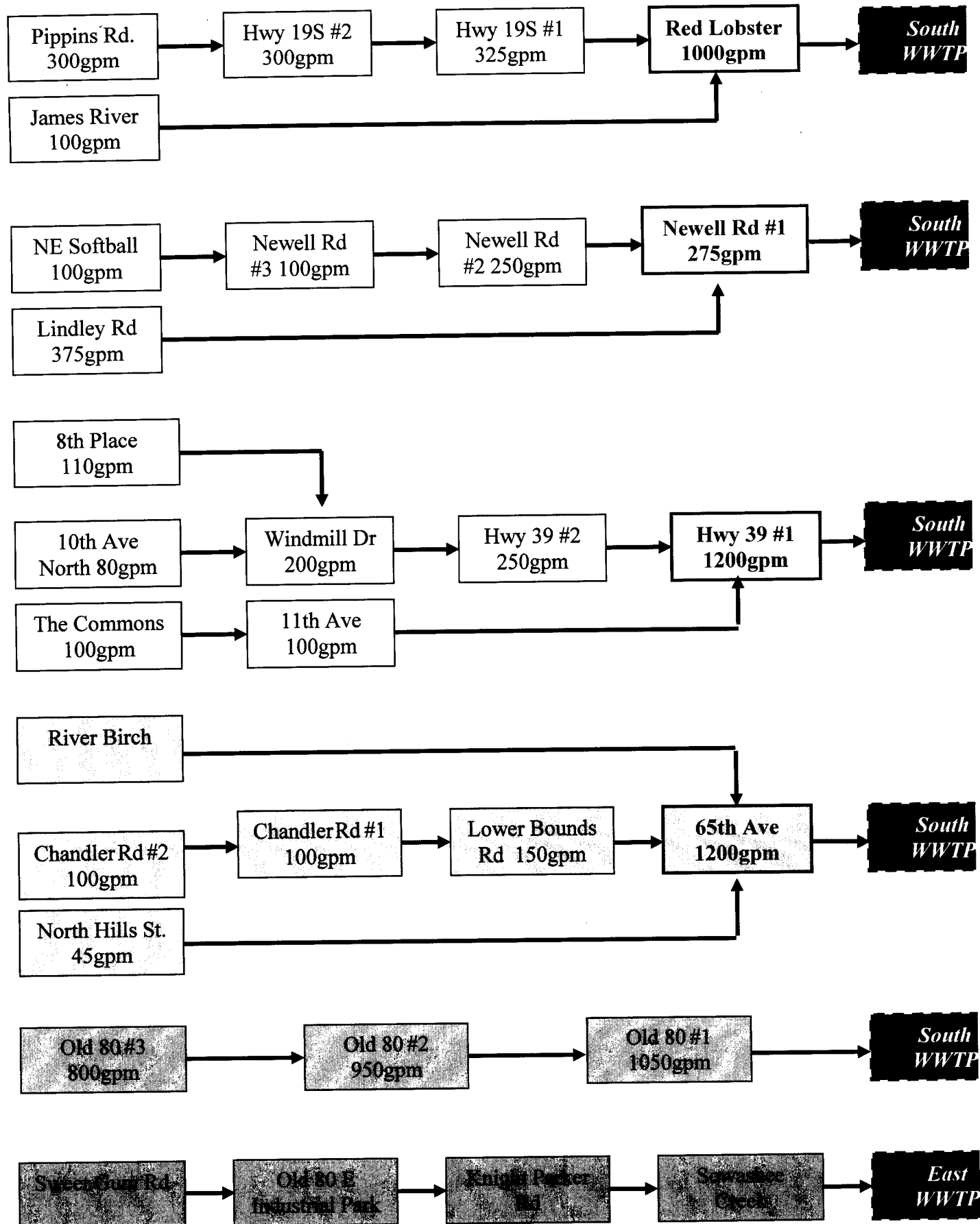
- Legend**
-  Wastewater Treatment Plant
 -  Pump Station
 -  Pipe
 -  Building
 -  Pump Station Service Area



Figure 5.3 Lift Station Dependency Diagram



Each pump station service area was analyzed in terms of the approximate number of service connections and cumulative number of sewer mains upstream of each pump station. This analysis was limited by the currently available GIS data. Thirteen pump stations do not have footage totals for the cumulative upstream sewer mains because there are no pipes connected to the pump stations in the GIS. Eight of these pump station do not have a total of upstream connections. These thirteen pump stations will be excluded from the analysis due to insufficient data. The approximate number of upstream connections and approximate cumulative linear footage of sewer mains in each pump station service area is given in Table 5.2.

Table 5.2 Cumulative Number of Upstream Connections and Linear Footage of Sewer Main in each Pump Station Service Area Wastewater Collection System Rehabilitation Program City of Meridian, MS		
Pump Station Service Area	Cumulative Upstream Sewer Mains (linear feet)	Cumulative No. of Up Stream Connections
65th Ave.	125,000	869
Red Lobster	81,500	293
Hwy 39 #1	40,000	345
Hwy 19 S #1	28,600	114
Newell Rd #1	28,000	120
Dogwood Dr.	26,600	106
Hwy 39 #2	14,500	120
70th Place	14,000	55
Hwy 19 S #2	13,000	57
Newell Rd #2	12,200	77
27th Street	11,800	125
Lower Bounds Rd	11,800	50
Newell Rd #3	9,800	63
Lindley Rd.	9,200	43
South Industrial Park	8,800	18
Old 80 #1 Station	8,500	53
Pippens Rd.	8,100	41
Windmill Dr.	7,800	118
North Wood Common	7,800	28

Table 5.2 Cumulative Number of Upstream Connections and Linear Footage of Sewer Main in each Pump Station Service Area Wastewater Collection System Rehabilitation Program City of Meridian, MS		
Pump Station Service Area	Cumulative Upstream Sewer Mains (linear feet)	Cumulative No. of Up Stream Connections
Chandler Rd #2	6,600	3
61st Court	6,100	104
North East Softball	6,000	4
North West School	5,200	48
22 Ave. Heights	5,200	24
Hwy 493	4,300	22
Lovers Ln.	3,900	37
8th Place	3,800	40
Tom Regan Rd.	3,700	4
11th Ave.	3,500	79
Tom Bailey Dr.	3,500	20
8th Ave. North	3,300	7
James River	2,700	8
Village Fair Mall	2,500	30
Days Inn	2,400	15
North Wood East Apt.	2,100	30
10th Ave. North	2,000	18
North Wood East	1,800	6
Tommy Webb Dr.	1,650	60
Pancake Field	1,500	22
St. John	1,500	10
Air Port Lift Station	1,500	6
31 Ave. South	1,500	4
9th Ave.	1,250	25
Chandler Rd #1	1,100	13

**Table 5.2 Cumulative Number of Upstream Connections and Linear Footage of Sewer Main in each Pump Station Service Area
Wastewater Collection System Rehabilitation Program
City of Meridian, MS**

Pump Station Service Area	Cumulative Upstream Sewer Mains (linear feet)	Cumulative No. of Up Stream Connections
A Ave.	1,000	16
38th St.	400	59
North Hills St.	50	1
MCC	0	15
La La	0	4
56th Court	0	2
The Commons	n/a	50
Old 80 #2 Station	n/a	20
Old 80 #3 Station	n/a	5
Cotton Gin Rd.	n/a	n/a
Knight Parker Rd.	n/a	n/a
Lockhart Trailer Park Rd.	n/a	n/a
N.A.S. Air Station	n/a	n/a
Old 80 East Industrial Park	n/a	n/a
River Birch LS	n/a	n/a
Sowashee Creek	n/a	n/a
Sweet Gum Bottom Rd.	n/a	n/a

5.4 HYDRAULIC MODELING OF FLOWS TO PUMP STATIONS

According to the Mississippi Department of Environmental Quality's (MDEQ) design guidelines for wastewater facilities, a pump station must be designed to handle "maximum anticipated sewage flows" with any one pump out of service. The wastewater flows to each pump station were approximated by assessing the DWF and expected RDII flowing to each pump station. Appropriate DWF peaking factors were also applied to calculate design flow rates from average flow rates. Since long-term DWF data was not available, the Great Lakes Upper Mississippi River Board standard (GLUMRB) DWF peaking factor was applied. Total design flow to each pump station was calculated as:

$$Q_{peak} = Q_{avg\ DWF} \times PF + Q_{RDII} \quad (\text{Eq. 3.1})$$

where Q_{peak} = peak hourly wet weather flow rate (gpm)

$Q_{avg\ DWF}$ = average daily flow rate (gpm)

PF = DWF peaking factor

Q_{RDII} = additional wet weather flow expected from 5 year - 24 hour design storm (gpm)

$Q_{avg\ DWF}$ from each service connection were approximated according to *Wastewater Collection System Modeling and Design* by Haested Methods, 2004 and given by the following:

- 200 gallons per residential house per day
- 105 gallons per apartment unit per day
- 40 gallons per restaurant seat per day
- 125 gallons per hotel room per day
- 2.5 gallons per church seat per day
- 475 gallons per store frontage per day, for the first 25ft of store frontage
- 400 gallons per store frontage per day, for each additional 25ft of frontage
- 15 gallons per office personnel per day
- 185 gallons per hospital patient per day

Using the above flow assumptions, DWF to each pump station was estimated. A DWF peaking factor (PF) was applied to approximate the peak hourly DWF rates to each pump station. The peaking factor used in these calculations is the GLUMRB peaking factor from *Wastewater Collection System Modeling and Design* by Haested Methods, 2004 and is given by:

$$PF = 2.4(Q_{avg})^{-0.11} \quad (\text{Eq. 3.2})$$

Where Q_{avg} is the average flow rate (ft³/sec) to the pump station

The pump station service areas, mentioned in Section 5.2, were used to estimate RDII to each pump station.

5.5 ASSESSMENT OF PUMP STATION OPERATIONAL CAPACITY

Each pump station was evaluated according to its ability to handle the design flows of incoming wastewater based on the flow assumptions developed in Section 5.4. DWF were estimated by accounting for the number and type of service connections using the City's GIS. Appropriate DWF Peaking Factors were applied and RDII was estimated using the 5-year, 24-hour design storm as described in Section 4. When design flows are compared with the rated capacity of the largest pump at each pump stations, some pump stations are under capacity. The analysis included the assessment of the largest pump at each station due to the limited availability of information. The pump station capacity assessment summary is shown in Table 5.3 with under capacity pump stations shown in red with parenthesis.

5.6 ANALYSIS OF FOUR CRITICAL PUMP STATIONS

During the course of the pump station analysis it became clear that four pump stations, in particular, garnered further attention. Based on the results of the flow modeling, interviews with City staff, and future growth projections, four pump stations: 1) The Red Lobster Pump Station, 2) The 65th Ave. Pump Station, 3) The Hwy. 39 #1 Pump Station, and 4) The Newell Road #1 Pump Station deserved closer analysis.

Pump Station operational information and anecdotal comments were supplied by the operators. The collection system network information was based on the GIS database updated by Carollo. Land use is based on maps obtained from Meridian's 2003 Comprehensive Plan published by the community development department. Past, current and future growth information was supplied by Meridian's Community Development Department in 2007.

5.6.1 The Red Lobster Pump Station

Insufficient Wet Well Volume for Dry Weather Flows and Insufficient Capacity for Wet Weather Flows: The Red Lobster Pump Station (PS) has a 1000gpm, 24HP pump and is experiencing rapid cycling times between 6-8 minutes during normal dry weather operation (WEF recommends cycling times no shorter than 10 minutes for pumps smaller than 25HP). The wet well has an 8 feet diameter and is 4 feet deep. Since the new sewer main coming into the well from the new mall is at the 3 feet mark, the wet well can only fill to about 3 feet deep before the wastewater begins to back up into main line. The operator currently allows wastewater to backup into the mainline to help minimize pump cycle times, but this puts the sewer main at risk for blockages due to sediment buildup as a result of low flow velocities.

Past Growth: The Red Lobster PS serves a rapidly growing area. Over the past 5-10 years the Red Lobster PS has seen its incoming flows increase due to a new mall development, hotels, and several other retail shops nearby. Moderate residential growth has occurred to the east of the Red Lobster PS along Hwy 19 including new apartment complexes on Willow Ridge Dr. and some single family homes. Four other pump stations pump to the Red Lobster PS service area (Pippins Rd, Hwy 19 S #2, Hwy 19 S #1, and James River).

Current and Future Growth: Areas to the immediate north and immediate south of the Red Lobster PS have been flagged as "Growth Areas" by Meridian's community development department in 2007. Both of these areas are zoned commercial. The \$60M Meridian Crossroads development is currently underway and will soon come online. Another big box retailer is also expected to build a store nearby within then next few years. The area east of the Red Lobster pump station along Hwy 19 is posed for future commercial growth. The intersection of Hwy 45 and Hwy 19 has been flagged as a "Future Business Area" in 2007. Also, a \$70M Arts Center may be built near the Bonita Lake.

Public Relations: The Red Lobster PS is located in the parking lot of the Red Lobster restaurant and is within 50 feet of the I-20 South Frontage Road. Overflows would be highly publicized and potentially hazardous to restaurant patrons and nearby businesses.

Odor: The Red Lobster PS has been the subject of many odor complaints since it is located in the parking lot of the Red Lobster restaurant. The restaurant would conceivably be very pleased to see the pump station relocated or eliminated.

Future Plans: The Red Lobster PS was originally put in service because of a boring project, which was installed at negative slope under the interstate highway. The line was supposed to be a gravity sewer from the Red Lobster parking lot to the other side of the interstate, but it was built with negative slope thereby necessitating a pump station. Meridian is considering eliminating this pump station by boring a new pipe beneath the interstate (approx. 287ft). This would serve to enhance operational efficiencies, lower complaints, and provide room for future growth.

5.6.2 65th Ave. Pump Station

Largest Service Area: The 65th Ave. PS has approximately 819 wastewater service connections including 727 single family homes, 64 businesses (including churches), and 28 apartment complexes. The 65th Ave. PS receives flow from more service connections than any other PS in Meridian. The service area includes approximately 125,000 feet of sewer pipe, not including service laterals. Four other pump stations pump to the 65th Ave. PS service area (Chandler Rd. #2, Chandler Rd. #1, Lower Bounds Rd. and 56th Place).

Insufficient Capacity: The 65th Ave. PS is prone to overflows during wet weather periods. An outfall to a nearby creek was constructed many years ago to relieve peak wet weather flows. The PS has a 1200gpm, 25HP pump and is experiencing cycling times of approximately 20 minutes during normal dry weather operation and runs continuously during peak wet weather flows. The PS used to be a dry/wet well configuration, but the operators knocked a hole between the two chambers to provide more storage capacity. The wet well is only 3 feet deep and has a rectangular shape.

Past Growth: Most of the growth in the past 15 years has been commercial growth along Hwy 19 N between 65th Ave S and Chandler Rd. There has also been low to moderate residential growth along North Hills St.

Current and Future Growth: There is potential for further commercial growth along Hwy 19 N and residential growth along North Hills St and State Blvd. However, since much of this area is in the 100 year flood plain, the growth may be slow.

/// Potential: Since much of the service area is in areas with high water table, the 65th Ave. PS is prone to receiving significant GWI and RDII.

5.6.3 Hwy 39 #1 Pump Station

Insufficient Wet Well Volume for Dry Weather Flows and Insufficient Capacity for Wet Weather Flows: The Hwy 39 #1 PS has a 1200gpm, 36HP pump and is experiencing rapid cycling times

between 3-4 minutes during normal dry weather operation (WEF recommends cycling times no shorter than 10 minutes for pumps smaller than 25HP, and longer cycle times for larger pumps).

Past Growth: During the past 15 years the Hwy 39 #1 PS service area has seen significant residential growth. Growth areas include subdivisions near the intersection of 61st Ct. and 11th Ave and neighborhoods along Windmill Dr. and Old Country Club Place. Five other pump stations pump to the Hwy 39 #1 PS service area (10th Ave. N, Windmill Dr., Hwy 39 #2, The Commons, and 11th Ave.).

Future Growth: Windmill Dr has been designated as a "Growth Area" with many residential and commercial developments expected. A new road is planned to run from Windmill Dr., near Old Country Club Pl. to Hwy 39. Several medium and high density residential areas are expected to develop along this new road. Additional commercial growth is also expected along Hwy 39 south of Windmill Dr as well as a new 1000 person School across from Northeast Lauderdale Elementary School.

Ground Water Infiltration: One of the main lines coming into the Hwy 39 #1 PS runs along a creek in a heavily wooded area. The operators have mentioned significant amounts of ground water entering the wet well and suspect the nearby creek is responsible.

Public Relations: The operator has noted that the property owner is very unhappy with the pump station located on his property.

5.6.4 Newell Rd #1 Pump Station

Past Growth: During the past 15 years most of the flow increase to the Newell Rd. #1 PS was due to residential growth north of Lindley Rd., and subdivisions along Newell Rd. Four other pump stations pump to the Newell Rd #1 PS service area (North East Softball, Newell Rd. #3, Newell Rd. #2 and Lindley Rd).

Future Growth: Areas along Newell Rd between Windmill Dr and North Hills St. have been designated as "Growth Areas". The expected growth is mixed between high density residential and commercial, including a new 1000 person School across from Northeast Lauderdale Elementary School.

Insufficient Capacity for Dry Weather Flows: The Newell Rd. #1 PS has a 275 gpm, 15HP pump and is experiencing moderate cycling times of approximately 15 minutes during normal dry weather operation. The wet well is has a 5' diameter and 55" depth.

Future Plans: The City is considering moving the Newell Rd. #1 PS since North Hills St is slated to be expanded to 4 lanes.

5.7 RECOMMENDATIONS

The recommendations for pump station improvements are based on the limited information available for the pump stations. A more detailed investigation should be performed prior to

implantation of the recommended improvements. This should include a complete capacity analysis of the pump stations including, performing a pump draw down test to determine the true pump capacities. Structural condition was not considered for this analysis. Capacity improvements for the pump stations were divided into two categories based on the severity of the deficiency.

5.7.1 Priority 1 and 2 Pump Station Capacity Improvements

Priority 1 pump station recommendations include improvements to the four critical pump station identified in Section 5.6. These pump station represent the highest risk for capacity failure. The station firm capacity should be capable of meeting 3 times the average dry weather flow. The recommended capacity for the priority 1 improvements is shown in Table 5.4.

Table 5.4 Priority 1 Lift Station Recommendations Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Pump Station	Existing Pump Capacity (gpm)	Total Cumulative Incoming Flows to Pump Station (gpm)	Design Flow with 20% growth (gpm)
Red Lobster	1,000	1,277	1,500
Newell Rd #1	275	775	900
Hwy 39 #1	275	688	800
65th Ave.	1,200	1,979	2,400

Priority 2 pump station recommendation included improvements to the ten under capacity stations identified in Table 5.2. These pump stations were not identified as high risk for capacity failure, but may become higher priorities in the near future. The recommended firm capacity for the priority 2 improvements is shown in Table 5.5.

Table 5.5 Priority 2 Lift Station Recommendations Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Pump Station	Existing Pump Capacity (gpm)	Total Cumulative Incoming Flows to Pump Station (gpm)	Design Flow with 20% growth (gpm)
Newell Rd #2	250	458	500
Newell Rd #3	100	392	500
Lower Bounds Rd	150	154	200
61st Court	75	89	100
Days Inn	150	152	200

Table 5.5 Priority 2 Lift Station Recommendations Wastewater Collection System Rehabilitation Program City of Meridian, MS			
Pump Station	Existing Pump Capacity (gpm)	Total Cumulative Incoming Flows to Pump Station (gpm)	Design Flow with 20% growth (gpm)
MCC	100	203	200
North Hills St.	45	117	100
North Wood East Apt.	150	371	400
Pancake Field	100	108	100
Village Fair Mall	100	148	200

5.7.2 Update Pump Station Asset Database and GIS

The pump station asset database should be updated and completed. The current assessment was performed using the readily available information. Completion of the database would provide information necessary to perform a more detailed analysis. Missing data should be field acquired. The GIS should be updated and expanded to include the pipes connected to the far out list stations. This would provide the minimum information to perform a capacity analysis on the stations excluded from the analysis due to lack of information.

OPERATIONS REVIEW

The City of Meridian has undertaken a review and evaluation of the existing wastewater collection system operations in association with the Sewer System Evaluation Survey (SSES). The goal was to review current practices and recommend changes that will improve customer service, and to minimize operations and maintenance (O&M) associated with the wastewater collection system.

The City of Meridian is located in the extreme east central of Mississippi. The Meridian collection system consists of approximately 303 miles of gravity sewer with a total replacement value of \$240 million. The system consists of a high percentage of small diameter vitrified clay pipe, which will require an increased maintenance demand as it continues to age. Portions of the Meridian system are reaching their design life of 75-100 years. In order to minimize system renewal costs and to extend the life of the system, rehabilitation or renewal of the existing infrastructure will be required.

The utility has several existing support programs that will require little effort to integrate into the overall framework of the O&M program. The following existing programs/activities have been identified as needed on an on-going basis:

- Geographic Information System provides an inventory of installed piping, pipe size, and pipe material. Supported by the Engineering Department, the GIS will provide updated maps of the collection system.
- The current work order system is more labor intensive than paperless systems being implemented nationwide. Implementation of an updated work order system can improve response times, allow electronic records referenced to a GIS system, and optimize crew resource scheduling.
- Hydraulic modeling of the wastewater collection system is currently on going. Once completed, this model will assist the City in determining a prioritized plan to ensure future capacity of the wastewater collection system.
- Maintaining Record Drawings and Specifications of new construction are critical to maintaining the collection system. Updating the GIS sewer maps with the new construction and providing field crews with up to date maps should allow the City to provide reliable service for the collection system.
- Cleaning and utilizing Closed-Circuit Television inspections for blockage removal will be a continuing requirement for the City as the clay pipes of the collection system ages. A procedure should be established to internally inspect (via CCTV) sewers with chronic stoppages in order to identify the cause and consider a course of action for repairs.
- Budgeting and accounting procedures for tracking of capital and O&M expenditures are organized well by City personnel. The City appears to be marginally funded with the current budgeting procedures and scheduled user rates.

- Sanitary Sewer Overflows are source of many regulatory issues for the City. The City staff is currently working to reduce overflows and maintain regulatory compliance through the use of hydraulic modeling, evaluating capacity needs and identifying sources of excessive infiltration/inflow.

Overall, the City of Meridian has implemented many of the programs that are necessary to provide for reliable service, sustained operation and maintenance of the wastewater collection system.

Table 1 of Attachment B illustrates a summary of the evaluation findings. A summary of recommendations is as follows:

- Preventive maintenance cleaning is currently not being undertaken by the City due to insufficient equipment and lack of trained field crewmembers. One additional cleaning truck with an easement access kit should be budgeted.
- Vacant employment positions within the department should be filled in order to implement repairs and establish preventive maintenance procedures.
- The Sewer Use Ordinance should be reviewed by the Public Works staff and updated as needed to address excessive infiltration/inflow, illicit connections and grease blockages. Grease is a major cause for system blockages and overflows. An extensive training and inspection program is recommended to ensure grease traps are being maintained, cleaned, and inspected periodically. Code enforcement and staff should review design criteria for grease traps and consider revising the SUO to require grease trap installations at apartments and other multifamily residential units.
- As-built record sewer construction drawings are not available to be updated into the collection system maps within a timely manner. Maintenance crews should have the best available information on asset locations in the event of a service call.
- Utilizing GIS software to identify the collection system's sewer lines and manholes is only about 65% complete. It is recommended that 11"x17" updated grid maps will provide easy to use accurate maps for use by line maintenance crews.
- Hydraulic modeling of future additions to the collection system will address the impact on downstream pipes for current and future capacity needs for sewers 10-inch and larger. New developments should be reviewed to ensure that adequate downstream capacity exists and to determine the impact on the existing collection system.
- The existing safety program is very good. It is recommended that the City conduct an annual safety drill to review response times and coordination with the appropriate agencies and to prepare an updated safety manual for each employee.
- The City currently has several Satellite City Agreements that Public Works staff and City Attorney should review to determine if the agreements address concerns such as grease and high infiltration/inflow.

- Long-term funding to rehabilitate and extend the life of the aging sewer infrastructure will be required. The City should consider providing Program projects to repair sources of infiltration/inflow and for unpredicted failures requiring emergency repair.
- The City should develop a long-term Program projects to provide administrators with current and future needs and estimated costs.

The cost to implement these recommendations is summarized in Table 2 of Attachment B along with a proposed implementation schedule. Although a majority of the recommendations can be undertaken by city staff at minimal cost, some will require going thru the budgeting process.

6.1 COLLECTION SYSTEM

6.1.1 Organization

Figure 4 of Attachment B presents the current City organizational chart. With recent trends in regulatory reporting, an updated departmental organization chart will need to be developed to identify City staff responsible for implementing, managing and updating the SSO abatement programs. This includes staff members responsible for managing the SSO response, investigating the cause, and reporting the SSO to the appropriate regulatory agencies. Figure 5 of Attachment B presents a recommended organization chart for the Collection System Maintenance Department under the Public Works Director with the following titles and position descriptions:

- Chief Administrative Officer and Director- Establishes departmental policy, plans strategy, leads staff, allocates resources, manages capital improvement delivery system, prepares itemized budgets, and coordinates development and implementation of various water and sewer programs.
- Operations Superintendent- Manages field operations and maintenance activities, provides relevant information to management, prepares and implements contingency plans, oversight for inflow and sewer repair crews, and maintains sewer pump stations and telemetry systems.
- Field Supervisors- Oversee scheduling of maintenance crews, inflow reduction crews, and repair crews.
- Field Crew- Perform maintenance activities, mobilize and respond to notification of stoppages and SSO's, inspect and test manholes and mainline, and perform sewer repairs.

6.1.2 Regulatory Compliance

Reduction in sanitary sewer overflows is a priority for the City to maintain long-term compliance with the MDEQ and EPA. Due to the age of the existing infrastructure, soil conditions and rainfall potential; additional crews and equipment will be required to maintain the existing level of customer service and reliability. As a result, the cost of service can be expected to increase as existing sewers are rehabilitated and/or replaced and new sewers are added to the collections system. Increasing the funding for collections system repair and rehabilitation will be required in order to

continue to provide reliable service. The Meridian system replacement value is \$240 million with a design life of 100 years. This would equate to approximately \$2.4 million per year to fully fund replacement of the system. Based on average costs nationally, replacement costs are approximately \$150/lf while rehabilitation costs are \$15/lf. The estimated rehabilitation cost for Meridian would approach approximately \$24 million (excluding any system capacity upgrades).

6.1.3 Satellite Communities

The City provides wastewater treatment for the City of Marion (population 1,389), a prison facility (including an adjacent truck stop), and the Naval Air Station (population 4,000). Permanent flow meters for each of these communities are installed to meter the flow into the collection system. The agreements and rates for the satellite communities are established by City ordinance (Attachment B).

6.2 MAINTENANCE

The City of Meridian has recently initiated a Sanitary Sewer Evaluation for the collection system. This evaluation will include developing a detailed plan to address SSO's and infiltration/inflow into the collection system. The following are the parameters used to evaluate the condition of the collection system:

6.2.1 Priority Areas

The City has recently completed a flow monitoring study to identify basin areas that have excessive infiltration/inflow in order to prioritize areas of the collection system requiring additional field efforts. Results of the flow monitoring study are presented in the July 2006 "Wastewater Flow Monitoring Final Report."

6.2.2 Manhole Inspections

Inspections of the manholes are currently being outsourced and conducted in the priority basins identified previously. Defects are identified and repairs are prioritized and scheduled accordingly.

6.2.3 Smoke Testing

The City utilizes high capacity smoke blowers to locate sources of odor and infiltration/inflow into the collection system. Both mainline and service laterals are tested to identify defects and repairs are prioritized and scheduled.

6.2.4 CCTV

The City owns and operates a single push camera that is utilized for the following:

- Inspection of problem line segments.
- Locate illicit connections.
- Inspect chronic blockages to locate cause and determine repair strategy.

- Assessment of the line condition.

It is recommended that the City budget a CCTV inspection van based upon the size and age of the collection system. The information collected from the CCTV inspection will assist in prioritizing the repair strategy and establishing the cause of blockages to reduce the number of work orders for repeat locations.

In addition to inspecting chronic stoppages, the CCTV equipment can inspect new construction service laterals and mainlines to ensure compliance with City standards and specifications. The goal would be to identify any defects in construction and repair under the warranty before expiration. It is recommended that City staff and any outside inspection service companies be certified under the Pipeline Assessment Certification Program (PACP). Using PACP certified operators would ensure that sewer pipeline defects are coded and described uniformly with the same terminology.

6.2.5 Cleaning

Cleaning of the sanitary sewers is a very important function completed by the City. Internal daily cleaning of the sewer line and pump stations assist in the following:

- Remove blockages.
- Remove root intrusion.
- Remove grease blockages.
- Remove settled and floating debris.
- Clean pipelines before CCTV inspections.
- Remove grit accumulation.
- Restore system capacity.
- Minimize SSO's.

The City currently owns and operates two jetting trucks. Each jetting truck utilizes a high-pressure hose reel and nozzle to remove blockages and perform regular cleaning of lines. With over 300 miles of sanitary sewer lines, the City will require an additional jetting truck due to the high usage and extensive maintenance required of the remaining jetting trucks. In addition, an easement attachment kit is recommend in order to access remote areas for cleaning.

6.2.6 System Repairs

A high percentage of the Meridian collection system is complied of clay sewer pipe. Most of these lines are nearing the end of the design life of 75 years. There are various rehabilitation methods that are available to extend the design life of these assets. The City currently conducts sewer cleanings to remove blockages associated with customer complaints. Preventive maintenance cleanings are conducted on a limited basis to address repeated blockages.

Additional crews will be required to perform repairs to sewer mainlines as the existing clay sewer pipes continues to near its useful design life. Chronic problem areas should be considered for replacement utilizing pipe-bursting methods. At that time, installation of service cleanouts can be completed at the property line if applicable.

6.2.7 Performance Indicators

The following performance indicators are recommended to track the progress and condition status of the collection system:

- Number of customer sewer complaints.
- Number of sewer stoppages and their cause.
- Number of dry weather overflows and their cause.
- Number of wet weather overflows and their cause.
- Number of cave-ins.
- Number of pump station failures and their type.
- Average time to respond to events or complaints.
- Number of grease trap inspections and violations.
- Lost time injury rate of employees based on hours worked.

6.3 ENGINEERING

Engineering provides support within the Public Works Department for streets, storm water, parks, etc. The support functions for the wastewater group include:

- Maintaining standard design criteria and construction details for new installations of sewers, streets, drainage, and water distribution.
- Review new construction with input from wastewater utilities staff.
- Construction inspection.
- Update collection system maps.
- Maintain all assets in GIS system.

6.3.1 As-Built Plans

As-built plans are maintained by engineering and are used to validate the collection system maps. The GIS maps are updated with completed as-built plans as time permits basis. Electronic and hardcopy maps are available from engineering.

6.3.2 Sewer System Maps

Approximately 65% of the sewer collection system has been GPS surveyed and the maps updated by engineering. Line maintenance staff still rely on the 36" x 44" blue-line drawings as the most up to date maps of the collection system. Corrections or additions to these blue-line drawings are provided by line maintenance for updating as time permits basis.

The process of inputting and updating the GIS maps is a slow and as time permits process. It is recommended that the line maintenance maps be provided to the GIS technicians to update the GIS collection system maps. The GIS maps can then be provided in an 11"x17" grid map with manhole asset identification numbers. Figure 7 of Attachment B illustrates an example of the 11"x17" grid map developed for the City with asset numbers assigned to manholes. Advantages of this process include:

- Line maintenance can be dispatched to specific manholes instead of street intersections.
- More manageable for line maintenance staff to handle 11"x17" grid maps.
- Ability to track repairs to specific manholes instead of adjacent street intersections.

Public Works relies heavily on GIS mapping for dispatching crews, performing maintenance and tracking performance of maintenance activities. GIS technicians can display locations for chronic SSO's, maintenance calls for blockages, lines with historical CCTV video, manhole inspection history and progress, smoke testing history, and rehabilitation history.

New development projects are required to submit as-built drawings upon completion. The GIS technicians will update the GIS maps. While large development projects may take up to a year to be updated in the GIS system, the line maintenance crews will not have maps identifying these new asset locations. A policy should be developed that will:

- Update GIS maps when development construction plans are approved to expedite as-built updates.
- Identify in the GIS system the lines that are under warrantee for service calls.
- Schedule a warrantee follow up inspection through the GIS system before the expiration of the warrantee period.

6.3.3 Gravity Sewer Design

Local consulting engineers use City standards and specifications for design of gravity sewer systems for new developments. The use of a hydraulic model of the collection system will provide the City with recommendations and prioritization of future Program projects. The City is currently using InfoWorks dynamic modeling software to model the collection system.

Based on the City's Code of Ordinances (Attachment B) and subdivision ordinance, the minimum gravity sewer size for new construction is 8-inch diameter PVC pipe rating SDR 26. A warrantee period of 1-year and review by line maintenance personnel is required as part of the design review

process. At this time there is no written policy on warrantee review or approvals for new construction developments.

6.3.4 Construction Inspection

Public works provides construction inspection services depending on the type of project. Construction warranties are generally required by contract although no written program has been developed to track the final warrantee inspection and final acceptance. Inspection services may be completed by third party inspectors or required as part of the consulting design engineers contract. Appendix B of Attachment B includes the "Construction Guidelines" developed by the City for reference.

6.4 TECHNICAL SUPPORT FUNCTIONS

6.4.1 Information Management

The City utilizes a computerized work management system that tracks customer complaints, budgets, etc. The system is not integrated with GIS mapping, wireless intranet, or any automated vehicle location system with the work management system. The existing work management system operates as follows:

- Request for service phoned in to the Public Works office.
- The information is entered in to the computerized work management system.
- Crews are assigned based on departmental procedures and location of nearest available crew.
- Field crew receives the work order via radio.
- Once the work is completed, a paper back up copy of the work order is filed with the Public Works office.

This system requires additional labor efforts as compared to other more modern systems that the City should consider upgrading in the future.

6.4.2 Contingency Planning

- **Public Notification-** City has several media outlets to utilize to notify and/or inform the public by way of a web site, newsletter, cable access, newspaper, door hangers, and billing inserts.
- **Regulatory Notification-** The Line Maintenance Superintendent is responsible for regulatory notification issues associated with the collection system. A draft Emergency Response Plan and Policy (Appendix C of Attachment B) has been prepared to address SSO response and reporting. The draft policy is intended to instruct staff members on responsibilities and procedures.
- **Pump Stations-** The collection system operates 55 pump stations to transport wastewater for treatment. Of these pump stations, only sixteen (16) pump stations are equipped with

telephone telemetry to notify staff of any operational issues. Some of the pump stations are equipped with generator transfer switches that are used with a portable generator in the event of power loss. Key replacement components for the pumps and controls are kept as part of the maintenance inventory as well as spare pumps for the pump stations.

- **Collection System Parts Inventory-** The purchasing department maintains an inventory of supplies for pipe, fittings, valves, etc. for the collection system. As the inventory items are used, supplies are then reordered with a set minimum quantity. The purchasing department should be aware of delivery lag times for supplies to ensure that the items are available when needed.

6.4.3 Ordinance Review

- **Sewer Use Ordinance (SUO)-** The existing SUO for the City prohibits discharges of storm water, grease, fats, etc. into the collection system (see Appendix A of Attachment B). The SUO should be updated to address the issues of extraneous infiltration/inflow and fat, oils and grease (FOG). A sample SUO is presented in Appendix D of Attachment B for review. The updated SUO on private service lines is vital to fully develop an infiltration/inflow reduction program.
- **FOG Ordinance-** There is no current City ordinance that addresses FOG specifically. Sewer blockages as a result of FOG are the primary cause for sanitary sewer overflows with the collection system. Appendix E of Attachment B presents a draft FOG ordinance for staff review and consideration.
- Restaurants are the largest contributors of grease to the collection system. The State Health Department has the responsibility for inspecting restaurants for health code violations. These inspections do not focus on grease traps or the frequency of cleaning. Discussions with the Health Department have determined that if a grease trap is not visibly overflowing or causing backups, then no inspection is conducted. The addition of grease trap inspections would greatly reduce the number of blockages and resulting SSO's. It is recommended that the City and State Health Department develop and implement a change in the inspection items reviewed to address grease trap inspections.
- In addition to restaurants, apartments are another major source for FOGs. The City should review the impact of requiring installation of grease traps for apartments and other types of multi-family housing units.

6.5 ADMINISTRATIVE SUPPORT

6.5.1 Human Resources

The City of Meridian maintains written job descriptions for all positions within the Public Works Department. The Civil Service Selection System is used to fill vacant positions. This selection process results in long delays between posting an open position and filling the position. Currently only 32 of the 46 Public Works Department positions are filled.

6.5.2 Safety Program

The City does not have a written safety-training program for employee's responsibilities and hazard awareness while on the job. Employees are held personally responsible for their actions and safe conditions in their work areas. A safety committee meets regularly to address and review accidents that are reported for corrective actions. A priority for the safety committee would be to review and update the following safety programs:

- Safety Committee authority.
- Confined Space Entry Program and Permit.
- Written safety procedures.
- Site traffic control and management.
- Utility trenching program.
- Safety equipment calibration, maintenance, and storage.
- Performance measures and effectiveness of each program.
- Inventory of chemicals used by staff for the Material Safety Data Sheet (MSDS) inventory program.

Based on a review of the City's Safety Program, the following recommendations are presented for review:

- Conduct random safety inspections for adherence to safety programs and document findings.
- Perform annual safety drills for each program to review coordination and response times with local emergency services.
- Establish calibration and maintenance program for safety equipment and gas detectors.
- Prepare a written safety policy manual. Appendix G of Attachment B presents a Draft Safety Manual for review.
- Provide proper training and handling of all chemicals inventoried as part of the MSDS program.

6.5.3 Financial

The City of Meridian staff prepares and tracks the budgets. The current user rates (Appendix A of Attachment B) are sufficient to fund budgeted wastewater needs. The budgets do not appear to have sufficient funding for the following:

- Collection system rehabilitation to reduce infiltration/inflow.
- Fully fund Program projects for future growth.
- Add emergency repairs budget provision.

Consistent annual funding for collection system renewal should be a high priority for the City in order to utilize the least cost repair methods. The unexpected collapse of a pipeline can only be repaired as an emergency replacement, which is at the highest cost. A prioritized Program plan that anticipates future needs and costs is recommended for intervals of 5, 10 and 20 years.

Due to the age of the collection system, failures of pipelines and pumps stations can be expected with repairs handled as an emergency. Funding should be budgeted accordingly to provide for such contingencies.

The City Council reviews and adjusts the user rates as necessary. The Public Works Department must work closely with the Council to ensure that adequate funding exists for the aging collection system. The water and sewer systems of the City will require increased funding in order to provide the Public Works Department with the resources needed to maintain and expand the infrastructure.

WASTEWATER COLLECTION SYSTEM REHABILITATION PROGRAM

This Chapter presents options of probable project costs for system improvements and service extensions recommended in other sections of this report. The end result of this study is a Program that itemizes suggested improvements by basin for existing and future conditions. Although the program set forth in this section covers existing and future conditions, the Program should be reviewed and updated annually as part of the City's continuous endeavor to maintain an adequate sewage collection and treatment system. Proactive planning up front will enable the City to serve its current population and anticipated service area growth satisfactorily.

The Program summarizes the results presented in Sections 3, 4 and 5. They include the rehabilitation and replacement of structurally failing infrastructure identified during the field inspections, and capacity deficiencies in the collection system during the 5-year, 24-hour design storm identified during the hydraulic modeling and pump station deficiencies identified through the analysis of existing pump stations. When fully implemented, the Program will allow the conveyance of peak wet weather flows to the WWTP during both existing and future conditions.

7.1 PROGRAM DEVELOPMENT

The Program recommendations are divided into two categories based on the type and severity of the deficiency. Category 1 Program recommendations include Priority 1 defects identified during the field inspection, existing capacity improvements identified during the hydraulic modeling and pump station deficiencies. Category 2 Program recommendations included Priority 2 defects identified during the field inspection, future capacity improvements identified during the hydraulic modeling and pump station deficiencies. The Category 1 recommendation should be performed immediately and the Category 2 recommendations should be phased in as funds are available. Located in Appendix E is a Map graphically showing the locations of the proposed recommendations.

7.2 PROGRAM COST ESTIMATES

Order-of-magnitude construction and project costs were developed for each project identified in the respective systems' evaluation phase presented in previous sections. Individual projects are discussed in detail in Sections 3, 4, and 5. Appendix F illustrates an expanded Program Cost Estimate Summary broken down by basin and recommendation type. More detailed description and locations maps of the recommendations are included in Appendix D, Attachment A1, and Attachment A2.

Table 7.1 provides project cost information required to complete construction and installation of the identified rehabilitation improvements for priority 1.

Table 7.1 Category 1 Cost Summary for Priority 1 Rehabilitation Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Total Cost
Manhole Rehabilitation Priority 1	\$41,193
Private Sector Rehabilitation Priority 1	\$26,100
Public Sector Rehabilitation Priority 1	\$60,866
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report) Priority 1	\$9,450
Mainline Rehabilitation Priority 1	\$69,741
Total Estimated Cost Priority 1	\$207,350

The costs for Hydraulic Model Recommendations are based on construction bids received for projects in similar communities in the Midwest region. The unit costs are for "typical" field conditions with construction in stable soil at an average depth of ten feet. The construction cost estimate for new pipelines used in developing the Program is based upon the unit costs presented in Table 7.2. These unit costs include pipe and pipe installation, manhole and appurtenances, excavation and backfill, pavement removal and replacement, limited sheeting, dewatering and shoring, and contractor overhead and profit.

1 Cost Summary for Hydraulic Model Recommendations

ter Collection System Rehabilitation Program eridian, MS

Manhole m	Downstream	General Location	Diameter (in)		Length (ft)	Unit Cost \$/ft ^{1,2}	Total Cost \$
			Existing	Proposed			
9	G27-177	Along 34th Ave. between 12th St. and 11th St.	12	18	345.9	165	57,078
9	LS-AT	About 1,500 ft east of MS Hwy 19 and N. HILL St.	16	21	3119.0	186	580,138
3	F25-030	About 600 ft north of I29 and 49th St., between 5	24	30	1431.4	248	354,993
5	F30-158	East of Oak Dr. between Bounds Rd. and Spruce St.	10	18	1199.8	165	197,972
3	F30-185	300 ft east of Bounds Rd. and 62nd Ave. 17th St. a	10	18	999.6	165	164,935
2	G28-053	Along 33rd Ave., between 17th St. and 21st St.	10	18	1430.5	165	236,039
7	G25-015	East of 49th St., between 1st St. and Front Rd.	18	24	1164.5	207	241,043
3	G25-029	North of I20 between 49th Ave. and 31st Ave.	24	30	1005.6	248	249,385
8	G25-078	Along 36th Ave., between 2nd St. and Interchange	27	36	593.5	289	171,519
3	I27-080	North of 8th Ave., between B St. and US Hwy 45	15	24	2390.1	207	494,755
2	G26-128	Along 45th Ave., between 14th St. and 5th St.	24	36	3556.4	289	1,027,799
3	G27-163	Along 34th St. between 12th St. and 10th St.	12	21	1004.1	186	186,770
8	G31-131	Along 34th Ave., 35th Ave. and 36th Ave.	10	18	2927.1	165	482,968
Total							4,445,394

nd pipe installation, manhole and appurtenances, lower laterals, excavation and backfill, pavement removal and
ng, dewatering and shoring, and contractor overhead and profit.
foot. Cost does not include construction contingency or administrative costs.

The costs for the Lift Stations are based on opinion of probable constructions costs for projects in similar communities in the Midwest region. The unit costs are for “typical” field conditions with construction in stable soil. These unit costs include installation, appurtenances, excavation and backfill, pavement removal and replacement, limited sheeting, and dewatering and shoring.

Table 7.3 Priority 1 Cost Summary Lift Station Recommendations Wastewater Collection System Rehabilitation Program City of Meridian, MS		
Pump Station	Design Flow with estimated 20% Growth (gpm)	Total Cost
Red Lobster	1,500	\$423,856
Newell Rd #1	900	\$358,488
Hwy 39 #1	800	\$318,656
65th Ave.	2,400	\$470,294

Category 2 recommendations are summarized in Tables 7.4, 7.5, and 7.6. These tables represent the, the Priority 2 recommendations from the evaluation study performed by Pipeline Analysis, hydraulic model recommendations for future flows and pump station improvements for future flows. More detailed description and locations maps of the recommendations are included in Appendix D, Appendix F, Attachment A1, and Attachment A2.

Table 7.4 provides project cost information required to complete construction and installation of the identified rehabilitation improvements for priority 2.

Table 7.4 Category 2 Cost Summary for Priority 2 Rehabilitation Wastewater Collection System Rehabilitation Program City of Meridian, MS	
Type	Total Cost
Manhole Rehabilitation Priority 2	\$166,061
Private Sector Rehabilitation Priority 2	\$35,850
Public Sector Rehabilitation Priority 2	\$1,386,273
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report) Priority 2	\$43,450
Mainline Rehabilitation Priority 2	\$295,244
Total Estimated Cost Priority 2	\$1,926,878

Table 7.5 Category 2 Cost Summary for Hydraulic Model Recommendations
Wastewater Collection System Rehabilitation Program
City of Meridian, MS

Problem ID	Basin	Manhole		General Location	Diameter (in)		Length (ft)	Unit Cost \$/ft ^{1,2}	Total Cost \$
		Upstream	Downstream		Existing	Proposed			
FUT-5-1	5	J33-004	J31-050	Between N. Hills St. and Old US Hwy 45	10	18	5027.0	165	829,455
Total									829,455

Notes:

1. Unit costs include pipe and pipe installation, manhole and appurtenances, lower laterals, excavation and backfill, pavement removal and replacement, limited sheeting, dewatering and shoring, and contractor overhead and profit.

2. \$/lf = unit cost per lineal foot. Cost does not include construction contingency or administrative costs.

Appendix A

Collection System Network Inventory

Definitions:

Asset Type: Manhole=M; E=End of Line; C=Cleanout

Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;

H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking

Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete; SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	TW	U	A	42	N	N	48	C	26.20	I32-030A0001.jpg	I32-030I0002.jpg	32.40678	-88.68661	S		6
	TW	U	A	4	N	N	48	C	8.47	I32-038A0001.jpg	I32-038I0002.jpg	32.40639	-88.68536	S		2
	TW	U	A	??	N	N	48	C	5.98	No Area Photo	No Internal Photo	32.40572	-88.68400	S		0
	YD	U	A	4	N	N	48	C	5.24	No Area Photo	No Internal Photo	32.40542	-88.68400	S		0
	YD	U	A	2	N	N	48	C	5.96	I32-054A0019.jpg	I32-054I0020.jpg	32.40403	-88.68269	S		0
	TW	U	A	15	Y	N	48	C	12.91	I32-055A0050.jpg	I32-055I0051.jpg	32.40400	-88.68230	S		0
	ST	P								No Area Photo	No Internal Photo					
	YD	U	A	8	N	N	48	C	5.85	I32-057A0014.jpg	I32-057I0015.jpg	32.40364	-88.68178	S		0
	YD	U	B	5	Y	N	48	C	11.70	I32-058A0007.jpg	I32-058I0008.jpg	32.40311	-88.68066	S		0
	YD	U	A	27	N	N	48	C	9.90	I32-059A0001.jpg	I32-059I0002.jpg	32.40375	-88.68044	S		6
	TW	U	A	2	N	L	48	C	7.02	I32-061A0057.jpg	I32-061I0058.jpg	32.40434	-88.68025	S		0
	YD	U	A	1	N	M	48	C	16.47	I32-061AA0001.jpg	I32-061AI0002.jpg	32.40506	-88.68014	S		0
	YD	U	A	1	N	M	48	C	8.93	I32-061BA0010.jpg	I32-061BI0011.jpg	32.40514	-88.68014	S		0
	ST	P								No Area Photo	No Internal Photo					
	YD	U	A	5	N	N	48	C	6.02	I32-061DA0020.jpg	I32-061DI0021.jpg	32.40547	-88.65239	S		0
	PL	P	X		N	N	48	C	12.74	I32-061EA0014.jpg	I32-061EI0015.jpg	32.40511	-88.68092	S		0
	YD	U	B	2	N	M	48	C	5.99	I32-061GA0027.jpg	I32-061GI0028.jpg	32.40561	-88.68189	S		0
	PL	P	X		N	L	48	C	5.87	I32-061IA0033.jpg	I32-061II0034.jpg	32.40547	-88.68259	S		0
	YD	U	B	2	N	N	48	C	10.24	I32-061LA0005.jpg	I32-061LI0006.jpg	32.40478	-88.68242	S		2
	YD	U	A	8	N	N	48	C	7.09	I32-061MA0001.jpg	I32-061MI0002.jpg	32.40480	-88.68172	S		0
	YD	U	B	5	N	M	48	B	3.36	I32-065A0044.jpg	I32-065I0045.jpg	32.40619	-88.67905	S		0
	TW	U	A	13	N	N	48	SB	4.52	I32-067A0012.jpg	I32-067I0013.jpg	32.40647	-88.67828	S		0
	YD	U	X		N	N	48	B	8.79	I32-068A0011.jpg	I32-068I0012.jpg	32.40594	-88.67839	S		1
	SH	U	X		N	L	48	C	7.92	I32-069A0020.jpg	I32-069I0021.jpg	32.40519	-88.67828	S		0
	YD	U	A	1	N	N	48	B	13.65	I32-070A0015.jpg	I32-070I0016.jpg	32.40480	-88.67825	S		0
	TW	U	A	10	N	N	48	C	8.78	I32-071A0001.jpg	I32-071I0002.jpg	32.40447	-88.67819	S		0
	YD	U	A	27	N	N	48	C	8.41	I32-072A0001.jpg	I32-072I0002.jpg	32.40622	-88.67770	S		4
	SH	U	B	10						I32-076A0068.jpg	No Internal Photo	32.40594	-88.67753			
	YD	U	A	1	N	N	48	C	7.44	I32-077A0007.jpg	I32-077I0008.jpg	32.40553	-88.67728	S		0
	TW	U	A	14	N	N	48	C	6.99	I32-078A0012.jpg	I32-078I0013.jpg	32.40522	-88.67706	S		3
	YD	U	B	12						I32-083A0067.jpg	No Internal Photo	32.40511	-88.67672			
	OT	P	B	8						I32-084A0018.jpg	No Internal Photo	32.40486	-88.67636			
	YD	U	X		N	N	48	C	6.62	I32-085A0019.jpg	I32-085I0020.jpg	32.40464	-88.67625	S		2
	YD	U	X		N	N	48	C	4.21	I32-085AA0025.jpg	I32-085AI0026.jpg	32.40478	-88.67597	S		0
	TW	U	A	8	N	N	48	C	10.30	I32-085BA0008.jpg	I32-085BI0009.jpg	32.40422	-88.67633	S		0
	DW	P	X		N	N	48	C	4.52	I33-075A0001.jpg	I33-075I0002.jpg	32.40689	-88.68714	S		0
	SH	U	A	3						No Area Photo	No Internal Photo	32.40686	-88.68658			
	YD	U	A	2	N	N	48	C	10.24	I33-077A0008.jpg	I33-077I0009.jpg	32.40725	-88.68616	S		0
	TW	U	A	3	N	N	48	C	12.71	I33-078A0016.jpg	I33-078I0017.jpg	32.40703	-88.68616	S		0

Definitions:

Asset Type: Manhole=M; E=End of Line; C=Cleanout

Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;

H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking

Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	YD	U	X		N	L	54	C	6.82	I33-096A0021.jpg	I33-096I0022.jpg	32.40739	-88.06842	S		0
	SH	U	X		N	M	54	C	6.40	I33-097A0028.jpg	I33-097I0029.jpg	32.40694	-88.68339	S		0
	YD	U	A	0.25	N	L	48	B	8.17	I33-098A0045.jpg	I33-098I0046.jpg	32.41261	-88.68333	S		0
	YD	U	B	1	N	L	48	B	7.58	I33-099A0038.jpg	I33-099I0039.jpg	32.41264	-88.68314	S		0
	SH	U	A	6	N	L	48	C	7.20	I33-100A0023.jpg	I33-100I0024.jpg	32.40781	-88.68283	S		0
	TW	U	A	16	N	N	48	SB	6.80	I33-101A0016.jpg	I33-101I0017.jpg	32.40975	-88.68303	S		2
	YD	U	A	1.5	N	M	54	C	14.31	I33-102A0037.jpg	I33-102I0038.jpg	32.40689	-88.68247	S		0
	FD	U	A	36	N	L	48	SB	6.10	I33-103A0010.jpg	I33-103I0011.jpg	32.41164	-88.68214	S		0
	YD	U							0.00	I33-103AA0017.jpg	No Internal Photo	32.41164	-88.68239			
	SH	U	A	4	N	M	48	C	10.30	I33-104A0015.jpg	I33-104I0016.jpg	32.40786	-88.68228	S		0
	SH	U	B	22	N	M	48	C	6.35	I33-105A0002.jpg	I33-105I0003.jpg	32.40922	-88.68220	S		8
	SH	U	B	13	N	M	48	C	5.70	I33-106A0006.jpg	I33-106I0007.jpg	32.40881	-88.68214	S		4
	SH	U	B	24	N	M			0.00	I33-107A0001.jpg	No Internal Photo	32.40931	-88.68214	S		
	YD	U	B	1	N	M	36	B	4.37	I33-108A0032.jpg	I33-108I0033.jpg	32.41264	-88.68220	S		0
	SH	U	A	25	N	L	48	C	9.43	I33-109A0033.jpg	I33-109I0034.jpg	32.40822	-88.68203	S		0
	TW	U	A	24	N	N	48	C	5.36	No Area Photo	No Internal Photo	32.40975	-88.67934	V	2	0
	SH	U	B	6	N	M	48	C	5.86	I33-111A0008.jpg	I33-111I0009.jpg	32.40933	-88.68197	S		0
	SH	U	A	4	N	L	48	C	6.60	I33-112A0001.jpg	I33-112I0002.jpg	32.40800	-88.68189	S		10
	YD	U	B	12						I33-116A0042.jpg	No Internal Photo	32.40694	-88.68164			
	YD	U	A	5	N	M	48	C	7.32	I33-119A0007.jpg	I33-119I0008.jpg	32.40778	-88.68172	S		0
	SH	U	B	13	N	M	48	C	5.48	I33-121A0001.jpg	I33-121I0002.jpg	32.40914	-88.68158	S		0
	SH	U	B	12	N	L	54	C	4.98	I33-122A0043.jpg	I33-122I0044.jpg	32.40692	-88.68161	S		0
	FD	U	A	52	N	N	48	C	8.75	I33-123A0018.jpg	I33-123I0019.jpg	32.40855	-88.68175	S		0
	YD	U	B	1	N	M	48	B	5.03	I33-126A0026.jpg	I33-126I0027.jpg	32.41230	-88.68142	S		0
	DW	P	X		N	M	48	B	7.37	I33-127A0018.jpg	I33-127I0019.jpg	32.41153	-88.68136	S		0
	SH	U	A	5	N	L	48	C	9.56	I33-129A0073.jpg	I33-129I0074.jpg	32.40886	-88.68134	OT		0
	YD	U	X		N	M	36	B	5.97	I33-130A0011.jpg	I33-130I0012.jpg	32.41111	-88.68134	S		0
	YD	U	B	0.5	N	M	36	B	3.35	I33-132A0005.jpg	I33-132I0006.jpg	32.41095	-88.68142	S		0.5
	YD	U	B	6	N	M	48	B	4.70	I33-133A0034.jpg	I33-133I0035.jpg	32.41042	-88.68142	S		0
	YD	U	B	0.5	N	M	36	B	3.37	I33-134A0001.jpg	I33-134I0002.jpg	32.41061	-88.68144	S		0
	SH	U	A	6	N	L	48	C	5.38	I33-135A0068.jpg	I33-135I0069.jpg	32.40875	-88.08114	S		12
	YD	U	A	3	N	L	54	C	7.80	I33-136A0047.jpg	I33-136I0048.jpg	32.40714	-88.68103	S		0
	TW	U	A	3	N	N	48	C	5.44	I33-137A0054.jpg	I33-137I0055.jpg	32.40931	-88.68108	V	4	0
	TW	U	A	21	N	N	48	C	6.65	I33-138A0046.jpg	I33-138I0047.jpg	32.40978	-88.68108	S		0
	SH	U	B	5	N	M	48	C	5.00	I33-139A0005.jpg	I33-139I0006.jpg	32.40842	-88.68103	S		18
	DD	U	A	62	N	N	48	C	7.50	I33-140A0061.jpg	I33-140I0062.jpg	32.40925	-88.68092	S		0
	YD	U	B	4	N	M	48	B	7.22	I33-141A0026.jpg	I33-141I0027.jpg	32.41053	-88.68095	S		0
	TW	U	A	66	N	N	48	C	8.40	I33-142A0008.jpg	I33-142I0009.jpg	32.41003	-88.68073	S		0
	SH	U	A	4	N	L	48	C	4.70	I33-144A0054.jpg	I33-144I0055.jpg	32.40733	-88.68047	S		0

Definitions:

Asset Type: Manhole=M; E=End of Line; C=Cleanout

Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate; H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete; SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	PL	P	X		N	M	48	B	8.68	I33-163AA0067.jpg	I33-163AI0068.jpg	32.40783	-88.67925	V	4	0.5
	DW	P	B	1	N	M	48	C	6.08	I33-164A0038.jpg	I33-164AI0039.jpg	32.40714	-88.67928	S		0
	YD	U	B	1	N	M	48	C	12.52	I33-165A0054.jpg	I33-165AI0055.jpg	32.40670	-88.67919	S		0
	YD	U	X		N	N	48	C	9.76	I33-171AA0034.jpg	I33-171AI0035.jpg	32.40794	-88.67825	S		0
	PL	P	X		N	N	48	C	8.60	I33-171BA0041.jpg	I33-171BI0042.jpg	32.40825	-88.67817	S		0
	SW	P	X		N	N	48	C	5.62	I33-171CA0046.jpg	I33-171CI0047.jpg	32.40867	-88.67805	S		0
	ST	P								No Area Photo	No Internal Photo					
	ST	P	X		N	N	48	C	5.28	J32-002A0001.jpg	J32-002AI0002.jpg	32.40475	-88.67486	S		2
	YD	U	A	8	N	N	48	C	4.56	J32-002AA0035.jpg	J32-002AI0036.jpg	32.40469	-88.67506	S		0
	YD	U	A	2	N	N	48	C	4.54	J32-002BA0040.jpg	J32-002BI0041.jpg	32.40508	-88.67533	S		2
	YD	U	X		N	N	48	C	4.30	J32-003A0006.jpg	J32-003AI0007.jpg	32.40464	-88.67494	S		0
	TW	U	A	24	N	N	48	C	7.24	J32-003AA0010.jpg	J32-003AI0011.jpg	32.40380	-88.67500	S		0
	TW	U	A	12	N	N	48	C	7.27	J32-003BA0005.jpg	J32-003BI0006.jpg	32.40392	-88.67503	S		0
	TW	U	A	53	N	N	48	C	7.22	J32-003CA0001.jpg	J32-003CI0002.jpg	32.40369	-88.67492	S		0
	YD	U	A	3	N	N	48	C	10.20	J32-004A0061.jpg	J32-004AI0062.jpg	32.40611	-88.67439	S		0
	YD	U								J32-004AA0066.jpg	No Internal Photo	32.40644	-88.67436			
	YD	U	A	6	N	N	48	B	8.96	J32-005A0054.jpg	J32-005AI0055.jpg	32.40561	-88.67439	S		6
	YD	U	A	4	N	N	48	SB	7.14	J32-006A0046.jpg	J32-006AI0047.jpg	32.40478	-88.67433	S		1
	YD	U	A	0.25	N	M	48	C	5.47	J32-007A0055.jpg	J32-007AI0056.jpg	32.40606	-88.67384	S		2
	YD	U	B	2	N	M	48	C	4.56	J32-008A0030.jpg	J32-008AI0031.jpg	32.40450	-88.67394	S		0
	YD	U	A	3	N	M	48	C	5.20	J32-009A0114.jpg	J32-009AI0115.jpg	32.40575	-88.67389	S		0
	YD	U	B	2	N	M	48	C	6.32	J32-010A0006.jpg	J32-010AI0007.jpg	32.40469	-88.67384	S		0
	YD	U	A	0.25	N	M	48	C	4.56	J32-010AA0001.jpg	J32-010AI0002.jpg	32.40522	-88.67384	S		0
	YD	U	B	3	N	M	48	B	6.33	J32-011A0013.jpg	J32-011AI0014.jpg	32.40464	-88.67347	S		0
	YD	U	A	3	N	L	48	C	10.20	J32-012A0060.jpg	J32-012AI0061.jpg	32.40597	-88.67300	S		0
	YD	U	B	0.5	N	M	48	C	4.61	J32-012AA0109.jpg	J32-012AI0110.jpg	32.40619	-88.67255	S		0
	YD	U	A	2	N	L	48	C	7.24	J32-013A0022.jpg	J32-013AI0023.jpg	32.40447	-88.67281	S		0
	YD	U	A	0.25	N	L	48	C	7.38	J32-014A0074.jpg	J32-014AI0075.jpg	32.40511	-88.67300	S		0
	DW	P	X		N	M	48	C	9.30	J32-014AA0069.jpg	J32-014AI0070.jpg	32.40580	-88.67297	S		0
	YD	U	A	6	N	L	48	C	6.86	J32-015A0018.jpg	J32-015AI0019.jpg	32.40456	-88.67286	S		0
	YD	U	A	0.5	N	L	48	C	4.79	J32-015AA0025.jpg	J32-015AI0026.jpg	32.40453	-88.67403	S		0
	YD	U	A	7	N	L	48	SB	6.15	J32-016A0026.jpg	J32-016AI0027.jpg	32.40456	-88.67261	S		0
	YD	U	A	1.5	N	L	48	C	6.82	J32-017A0080.jpg	J32-017AI0081.jpg	32.40503	-88.67253	S		0
	YD	U	A	4	N	L	48	C	8.96	J32-019A0094.jpg	J32-019AI0095.jpg	32.40603	-88.67208	S		0
	ST	P	X		N	L	48	C	11.32	J32-020A0089.jpg	J32-020AI0090.jpg	32.40597	-88.67203	S		0
	YD	U	A	4	N	L	48	C	9.98	J32-023AA0084.jpg	J32-023AI0085.jpg	32.40608	-88.67228	S		0
	TW	U	A	4	N	N	48	C	5.24	J32-024A0001.jpg	J32-024AI0002.jpg	32.40491	-88.67169	S		3
	YD	U	B	3	N	M	48	C	7.18	J32-026A0100.jpg	J32-026AI0101.jpg	32.40600	-88.67128	S		0
	SH	U	A	4	N	L	48	C	5.44	J32-026A0017.jpg	J32-026AI0018.jpg	32.40608	-88.67106	S		0

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Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	SH	U	A	40	N	N	48	C	9.90	J32-042FA0001.jpg	J32-042FI0002.jpg	32.40369	-88.67114	S		0
	SH	U	A	1	N	L	48	B	8.04	J32-043A0009.jpg	J32-043I0010.jpg	32.40375	-88.67111	S		0
	SH	U	A	12	N	L	48	C	10.06	J32-045A0018.jpg	J32-045I0019.jpg	32.40372	-88.67097	S		0
	YD	U	X	0.25	N	L	48	C	7.38	No Area Photo	No Internal Photo	32.40511	-88.67300	S		0
	YD	U	A	10	N	N	48	SB	10.96	J33-002A0011.jpg	J33-002I0012.jpg	32.41136	-88.67536	S		0
	TW	U	A	18	N	N	48	B	13.50	J33-003A0007.jpg	J33-003I0008.jpg	32.41117	-88.67458	S		0
	FD	U	A	6	N	N	48	B	4.62	J33-004CA0012.jpg	J33-004CI0013.jpg	32.40747	-88.67470	S		0
	YD	U	B	4	N	M	48	B	4.30	No Area Photo	No Internal Photo	32.40944	-88.67545	S		0
	TW	U	B	8	N	N	48	B	9.28	J33-005A0027.jpg	J33-005I0028.jpg	32.40950	-88.67339	S		2
	TW	U	B	32	N	N	48	C	7.92	J33-006A0011.jpg	J33-006I0012.jpg	32.41011	-88.67372	S		2
	YD	U	B	0.25	N	M	48	SB	7.33	J33-007A0009.jpg	J33-007I0010.jpg	32.41208	-88.67375	S		0
	ST	P	X		N	M	48	SB	7.32	J33-008A0024.jpg	J33-008I0025.jpg	32.41067	-88.67377	S		0
	DW	P	X		N	L	48	SB	9.51	J33-009A0008.jpg	J33-009I0009.jpg	32.41269	-88.67372	S		0
	YD	U	X		N	L	48	SB	8.97	J33-010A0015.jpg	J33-010I0016.jpg	32.41130	-88.67377	S		0
	DW	P	X		N	L	48	SB	6.46	J33-011A0001.jpg	J33-011I0002.jpg	32.41339	-88.67369	S		2
	YD	U	A	2.5	N	L	48	SB	8.12	J33-012A0028.jpg	J33-012I0029.jpg	32.41056	-88.67364	S		0
	YD	U	X		N	N	48	B	3.61	No Area Photo	No Internal Photo	32.41053	-88.67355	S		0
	YD	U	B	0.5	N	L	48	SB	10.97	J33-013A0001.jpg	J33-013I0002.jpg	32.41211	-88.67345	S		0
	TW	U	A	3	N	N	48	B	9.20	J33-014A0023.jpg	J33-014I0024.jpg	32.40897	-88.67308	S		1
	TW	U	A	3	N	N	48	B	8.68	J33-015A0015.jpg	J33-015I0016.jpg	32.40831	-88.67269	S		3
	TW	U	A	2	N	N	48	C	7.72	J33-019A0008.jpg	J33-019I0009.jpg	32.40717	-88.67255	S		6
	YD	U	B	0.25	Y	L	48	SB	8.31	J33-020A0027.jpg	J33-020I0028.jpg	32.41292	-88.67245	S		0
	TW	U	A	28	N	N	48	C	11.22	J33-020BA0001.jpg	J33-020BI0002.jpg	32.40667	-88.67247	S		0
	TW	U	A	12	N	N	48	C	8.68	J33-020CA0008.jpg	J33-020CI0009.jpg	32.40703	-88.67264	S		0
	TW	U	A	18	N	N	48	C	8.38	J33-020DA0012.jpg	J33-020DI0013.jpg	32.40761	-88.67278	S		0
	TW	U	A	18	N	N	48	C	8.20	J33-020EA0017.jpg	J33-020EI0018.jpg	32.40805	-88.67284	S		0
	TW	U	X	20	N	N	48	C	8.70	J33-020FA0021.jpg	J33-020FI0022.jpg	32.40836	-88.67284	S		0
	TW	U	A	29	N	N	48	C	9.65	J33-020GA0025.jpg	J33-020GI0026.jpg	32.40900	-88.67306	S		0
	TW	U	A	16	N	N	48	C	9.86	J33-020HA0023.jpg	J33-020HI0024.jpg	32.40947	-88.67336	S		2
	TW	U	A	19	N	N	48	C	9.88	J33-020JA0018.jpg	J33-020JI0019.jpg	32.41006	-88.66739	S		4
	WB	U								No Area Photo	No Internal Photo					
	YD	U	B	5	N	L	48	SB	8.35	J33-021A0037.jpg	J33-021I0038.jpg	32.41211	-88.67245	S		0
	TW	U	A	3	N	N	48	C	6.84	J33-022A0001.jpg	J33-022I0002.jpg	32.40661	-88.67228	S		4
	TW	U	A	15	N	M	48	C	6.02	No Area Photo	No Internal Photo	32.40853	-88.67186	S		4
	YD	U	X		N	M	30	B	3.18	J33-024A0001.jpg	J33-024I0002.jpg	32.41211	-88.67181	S		0
	SH	U	A	14	N	M	48	C	3.77	J33-026BA0021.jpg	J33-026BI0022.jpg	32.40675	-88.67106	S		0
	SH	U	A	36	N	N	48	SB	9.89	J33-027A0016.jpg	J33-027I0017.jpg	32.40855	-88.67103	S		0
	SH	U	A	26	N	N	48	C	6.84	No Area Photo	No Internal Photo	15.84000	-88.67108	S		4
	SH	U	A	10	N	N	48	SB	5.46	J33-027BA0021.jpg	J33-027BI0022.jpg	32.40808	-88.67103	S		4

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Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	TW	U	X		N	N	48	B	3.19	G26-041BA0005.jpg	G26-041BI0006.jpg	32.36008	-88.71420	S		0
(ARD)	OT	U								No Area Photo	No Internal Photo					
	YD	U	A	45	N	N	48	B	13.32	G26-043AA0001.jpg	G26-043AI0002.jpg	32.35892	-88.71439	S		0
	CR	U	A	2	N	L	60	C	6.73	G26-044A0012.jpg	G26-044I0013.jpg	32.35756	-88.71414	B		0
	SH	U	A	1	N	L	48	B	5.41	G26-045A0001.jpg	G26-045I0002.jpg	32.35947	-88.71445	S		0
	SH	P	B	1	N	L	48	B	5.61	G26-046A0021.jpg	G26-046I0022.jpg	32.36061	-88.71411	V	36	0
	TW	U	A	26	N	N	48	C	10.52	G26-047A0001.jpg	G26-047I0002.jpg	32.35953	-88.71381	S		4
	TW	U	A	12	N	N	48	C	5.28	G26-049A0006.jpg	G26-049I0007.jpg	32.35950	-88.71406	S		3
	FD	U	A	4	N	L	60	C	17.63	G26-052A0001.jpg	G26-052I0002.jpg	32.35870	-88.71300	S		0
	ST	P	X		N	L	48	B	6.60	G26-172A0049.jpg	G26-172I0050.jpg	32.36183	-88.71925	S	0	1
	ST	P	B	0.5	N	L	36	B	6.21	G26-173A0021.jpg	G26-173I0022.jpg	32.36061	-88.71917	S		1
	ST	P	X		N	L	48	B	5.52	G26-174A0033.jpg	G26-174I0034.jpg	32.35772	-88.71906	S		1
	ST	P	B	1	N	L	48	B	5.98	G26-176A0027.jpg	G26-176I0028.jpg	32.35794	-88.71819	S		1
	ST	P	X	0	N	L	36	B	6.12	G26-177A0014.jpg	G26-177I0015.jpg	32.36175	-88.71814	V	36	0
	ST	P	X		N	L	48	B	5.10	G26-178A0044.jpg	G26-178I0045.jpg	32.36317	-88.71817	S		0
	ST	P	B	1	N	M	48	B	8.20	G26-179A0047.jpg	G26-179I0048.jpg	32.35889	-88.71809	S		12
	ST	P	X		N	L	48	B	6.68	G26-180A0021.jpg	G26-180I0022.jpg	32.35800	-88.71809	S		1
	ST	P	X		N	L	48	B	5.43	G26-181A0006.jpg	G26-181I0007.jpg	32.36061	-88.71814	S		0.5
	ST	P	X		N	L	48	B	5.72	G26-182A0039.jpg	G26-182I0040.jpg	32.35836	-88.71809	S		0
	ST	P	B	0.25	N	L	48	B	5.82	G26-183A0001.jpg	G26-183I0002.jpg	32.36011	-88.71811	S		0
	ST	P	X		N	L	VLT	B	7.24	G26-185A0054.jpg	G26-185I0055.jpg	32.35886	-88.71797	S		2
	ST	P	X		N	L	48	B	7.08	G26-186A0058.jpg	G26-186I0059.jpg	32.35944	-88.71800	S		1
	ST	P	B	1	N	L	36	B	4.96	G26-187A0001.jpg	G26-187I0002.jpg	32.36228	-88.71797	S		3
	ST	P	A	1	N	L	36	B	3.85	G26-188A0005.jpg	G26-188I0006.jpg	32.36172	-88.71780	S		4
	ST	P	X	0	N	L	48	B	5.20	G26-190A0032.jpg	G26-190I0033.jpg	32.36289	-88.71731	V	36	0
	ST	P	B	1	N	M	48	B	5.21	G26-191A0069.jpg	G26-191I0070.jpg	32.36230	-88.71722	V	36	0
	ST	P	B	1	N	M	48	B	5.32	G26-192A0059.jpg	G26-192I0060.jpg	32.36319	-88.71689	S		6
	ST	P	B	1	N	L	48	B	6.98	G26-193A0062.jpg	G26-193I0063.jpg	32.35947	-88.71675	S		0
	ST	P	A	1	N	L	36	B	3.85	G26-194A0014.jpg	G26-194I0015.jpg	32.35833	-88.71675	S		2
	ST	P	X		N	L	48	B	4.40	G26-195A0068.jpg	G26-195I0069.jpg	32.36044	-88.71677	S		2
	ST	P	X		N	L	48	B	4.47	G26-196A0001.jpg	G26-196I0002.jpg	32.35892	-88.71675	S		0
	ST	U	B	1	N	M	48	B	4.60	G26-197A0061.jpg	G26-197I0062.jpg	32.36203	-88.71677	S		2
	ST	P	B	1	N	M	48	B	4.96	G26-198A0057.jpg	G26-198I0058.jpg	32.36230	-88.71677	V	36	1
	ST	P	B	1	N	L	48	B	4.35	G26-199A0010.jpg	G26-199I0011.jpg	32.36169	-88.71677	S		1
	ST	P	X		N	L	48	B	4.35	G26-200A0052.jpg	G26-200I0053.jpg	32.36230	-88.71664	S		2
	ST	P	A	0.5	N	L	48	B	3.73	G26-201A0012.jpg	G26-201I0013.jpg	32.36175	-88.71633	S		2
	ST	P	B	1	N	M	36	B	3.78	G26-203A0009.jpg	G26-203I0010.jpg	32.35892	-88.71600	S		1
	ST	P	B	1	N	M	48	B	3.27	G26-204A0043.jpg	G26-204I0044.jpg	32.36225	-88.71545	S		1
	ST	P	X		N	L	48	B	3.79	G26-205A0021.jpg	G26-205I0022.jpg	32.36272	-88.71575	S		0

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	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	ST	P	B	1	N	M	48	B	8.97	G26-216A0040.jpg	G26-216I0041.jpg	32.35864	-88.71542	S		5
	ST	P	X		N	L	48	C	10.29	G26-217A0026.jpg	G26-217I0027.jpg	32.36058	-88.71539	S		0
	ST	P	X		N	L	48	C	8.98	G26-218A0069.jpg	G26-218I0070.jpg	32.36136	-88.71542	S		0
	ST	P	X		N	L	48	B	3.10	G26-219A0031.jpg	G26-219I0032.jpg	32.36172	-88.71519	S		0.5
	ST	P	B	0.25	N	L	48	B	3.80	G26-220A0024.jpg	G26-220I0025.jpg	32.36230	-88.71455	S		0
	ST	P	X		N	L	48	B	4.02	G26-221A0013.jpg	G26-221I0014.jpg	32.36267	-88.71455	S		0
	ST	P	X		N	L	48	B	4.38	G26-222A0007.jpg	G26-222I0008.jpg	32.36295	-88.71458	V	36	0
	ST	P	X		N	L	48	C	7.27	G26-223A0001.jpg	G26-223I0002.jpg	32.36236	-88.71453	S		0
	SH	U	B	1	N	M	48	C	7.48	G26-224A0020.jpg	G26-224I0021.jpg	32.36295	-88.71450	B		0
	ST	P	X		N	L	48	B	5.18	G26-225A0027.jpg	G26-225I0028.jpg	32.36053	-88.71394	B		0
	ST	P	A	1	N	L	48	B	5.60	G26-226A0005.jpg	G26-226I0006.jpg	32.36234	-88.71414	S		2
	ST	P	X		N	L	48	B	5.30	G26-227A0034.jpg	G26-227I0035.jpg	32.36103	-88.71414	V	36	0
	ST	P	A	0.5	N	L	48	B	5.44	G26-228A0027.jpg	G26-228I0028.jpg	32.36067	-88.71416	S		0
	ST	P	A	1	N	L	48	B	3.62	G26-229A0024.jpg	G26-229I0025.jpg	32.36183	-88.71416	S		0
	ST	P	X		N	L	48	B	5.01	G26-231A0021.jpg	G26-231I0022.jpg	32.36025	-88.71303	S		0
	ST	P	X		N	L	48	B	5.85	G26-232A0064.jpg	G26-232I0065.jpg	32.36228	-88.71275	S		3
	ST	P	B	1	N	M	VLT	B	6.62	G26-233A0016.jpg	G26-233I0017.jpg	32.36106	-88.71275	S		3
	ST	P	B	1	N	L	48	B	6.49	G26-234A0008.jpg	G26-234I0009.jpg	32.36106	-88.71252	V	36	0
	ST	P	A	1	N	L	48	B	6.92	G26-235A0001.jpg	G26-235I0002.jpg	32.36169	-88.71255	S	0	0
	ST	P	X		N	L	48	B	6.89	G26-236A0014.jpg	G26-236I0015.jpg	32.36028	-88.71252	S		2
	ST	P	B	0.5	N	M	48	B	6.36	G26-237A0039.jpg	G26-237I0040.jpg	32.35944	-88.71250	V	36	0
	ST	P	B	2	N	M	48	B	5.80	G26-238A0050.jpg	G26-238I0051.jpg	32.36228	-88.71255	V	32	0
	ST	P	B	0.25	N	M	48	B	6.60	G26-240A0043.jpg	G26-240I0044.jpg	32.35981	-88.71122	S		3
	ST	P	B	0.5	N	M	36	B	3.45	G26-241A0057.jpg	G26-241I0058.jpg	32.36234	-88.71122	V	36	15
	ST	P	A	0.5	N	L	48	B	7.82	G26-242A0048.jpg	G26-242I0049.jpg	32.36014	-88.71103	S		3
	ST	P	B	0.25	N	L	48	B	8.61	G26-243A0008.jpg	G26-243I0009.jpg	32.36103	-88.71091	S		0
	ST	P	X		N	L	48	B	5.45	G26-244A0001.jpg	G26-244I0002.jpg	32.36236	-88.71098	S		0
	ST	P								G26-245A0001.jpg	G26-245I0002.jpg	32.36064	-88.71098	V	32	0
	ST	P	X		N	L	48	B	4.42	G26-256A0031.jpg	No Internal Photo					
	ST	P	X		N	L	48	C	5.92	G26-264A0055.jpg	G26-264I0056.jpg	32.35669	-88.71358	S		0
	ST	P	X		N	L	48	B	5.52	G26-265A0017.jpg	G26-265I0018.jpg	32.35753	-88.71361	S		0
	ST	P	X		N	M	60	C	7.87	G26-266A0022.jpg	G26-266I0023.jpg	32.35814	-88.71364	S		0
	ST	P	A	0.25	N	L	60	C	10.41	G26-267A0007.jpg	G26-267I0008.jpg	15.03917	-88.71361	S		0
	ST	P	X		N	L	60	C	13.72	G26-268A0033.jpg	G26-268I0034.jpg	32.35750	-88.71361	S		0
	SH	U	X		N	M	36	B	4.76	G26-269A0027.jpg	G26-269I0028.jpg	32.35831	-88.71358	S		0
	SH	U	X		N	M	36	B	4.45	G26-288A0040.jpg	G26-288I0041.jpg	32.35750	-88.71353	S		2
	ST	P								G26-288AA0049.jpg	G26-288AI0050.jpg	32.35750	-88.71325	S		0
	vn	u								G26-293A0053.jpg	No Internal Photo	32.36020	-88.71020			
										G26-294A0007.jpg	No Internal Photo	32.36058	-88.71005			

Asset Type: Manhole=M; E=End of Line; C=Cleanout
Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;
H=Homeowner
Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking
Lot; WB=Within Building/Property
Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches
Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe
Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick
Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
										G27-036A0005.jpg	G27-036I0006.jpg	32.36489	-88.71111	S		0
	ST	P	X		N	L	42	B	5.34							
	ST	P	X		N	L	48X36	B	5.32	G27-036AA0011.jpg	G27-036AI0012.jpg	32.36492	-88.71111	S		0
										G27-037A0040.jpg	No Internal Photo	32.36711	-88.71044			
	ST	P	B	4												
	ST	P	X		N	L	48	B	3.76	G27-038A0020.jpg	G27-038I0021.jpg	32.36350	-88.71017	S		4
	ST	P	B	1	N	L	48	B	8.00	G27-098A0031.jpg	G27-098I0032.jpg	32.36492	-88.71819	S		4
	ST	P	X	0	N	L	48	B	6.08	G27-099A0038.jpg	G27-099I0039.jpg	32.36411	-88.71817	V	23	0
	ST	P	X	0	N	L	48	B	8.90	G27-106A0006.jpg	G27-106I0007.jpg	32.36406	-88.71728	S	0	10
	ST	P	X	0	N	L	36	B	2.84	G27-107A0017.jpg	G27-107I0018.jpg	32.36350	-88.71722	S	0	1
	ST	P	X	0	N	L	48	B	5.45	G27-108A0011.jpg	G27-108I0012.jpg	32.36378	-88.71722	S		0
	ST	P	X	0	N	L	48	B	5.01	G27-109A0023.jpg	G27-109I0024.jpg	32.36319	-88.71719	S	0	0
	ST	P	X	0	N	L	48	B	4.78	G27-110A0001.jpg	G27-110I0002.jpg	32.36428	-88.71694	S	0	6
	ST	P	X	0	N	L	48	B	13.44	G27-111A0022.jpg	G27-111I0023.jpg	32.36489	-88.71692	S	0	3
	ST	P	X		N	L	48	B	7.85	G27-112A0026.jpg	G27-112I0027.jpg	32.36578	-88.71692	V	36	0
	ST	P								G27-112AA0033.jpg	No Internal Photo					
	ST	P	X	0	N	M	48	B	10.23	G27-113A0006.jpg	G27-113I0007.jpg	32.36681	-88.71694	V	36	0
	ST	P	X	0	N	L	48	B	4.18	G27-115A0002.jpg	G27-115I0003.jpg	32.36772	-88.71697	V	36	0
	ST	P	X		N	L	48	B	10.20	G27-116A0039.jpg	G27-116I0040.jpg	32.36411	-88.71684	S		6
	ST	P	X		N	L	48	B	4.25	G27-117A0053.jpg	G27-117I0054.jpg	32.36772	-88.71677	S	0	3
	ST	P	X	0	N	M	48	B	3.07	G27-118A0001.jpg	G27-118I0002.jpg	32.36880	-88.71664	V	36	1
	ST	P	X	0	N	L	48	B	5.30	G27-119A0020.jpg	G27-119I0021.jpg	32.36578	-88.71655	S	0	0
	ST	P	B	1	N	M	48	B	5.40	G27-120A0016.jpg	G27-120I0017.jpg	32.36675	-88.71631	S	0	10
	ST	P	B	1	N	L	48	B	5.76	G27-123A0033.jpg	G27-123I0034.jpg	32.36411	-88.71575	V	22	0
	ST	P	X	0	N	L	48	B	7.63	G27-124A0014.jpg	G27-124I0015.jpg	32.36489	-88.71572	S		0
	ST	P	X		N	L	VLT	B	6.20	G27-125A0034.jpg	G27-125I0035.jpg	32.36578	-88.71575	S	0	0
	ST	P	B	1	N	L	VLT	B	8.84	G27-126A0040.jpg	G27-126I0041.jpg	32.36678	-88.71575	S	0	0
	ST	P	X		N	L	VLT	B	5.87	G27-127A0045.jpg	G27-127I0046.jpg	32.36772	-88.71575	V	36	0
	ST	P	B	1	N	M	48	B	9.58	G27-128A0005.jpg	G27-128I0006.jpg	32.36878	-88.71575	S		1
	ST	P	X	0	N	L	48	B	6.11	G27-130A0001.jpg	G27-130I0002.jpg	32.36581	-88.71533	S	0	3
	ST	P	X	0	N	L	48	B	4.29	G27-131A0043.jpg	G27-131I0044.jpg	32.36775	-88.71533	S	0	0
	ST	P	B	1	N	L	48	B	4.80	G27-132A0058.jpg	G27-132I0059.jpg	32.36678	-88.71531	S	0	6
	ST	P	B	0.25	N	L	48	B	4.74	G27-133A0001.jpg	G27-133I0002.jpg	32.36322	-88.71450	S		0
	ST	P	A	0.25	N	M	48	C	8.59	G27-134A0079.jpg	G27-134I0080.jpg	32.36347	-88.71453	B		0
	ST	P	X		N	L	48	B	6.37	G27-135A0023.jpg	G27-135I0024.jpg	32.36411	-88.71453	V	22	0
	ST	P	X		N	L	48	B	5.77	G27-136A0072.jpg	G27-136I0073.jpg	32.36350	-88.71455	S		0
	ST	P	B	1	N	L	48	B	6.59	G27-138A0065.jpg	G27-138I0066.jpg	32.36578	-88.71450	S	0	0
	ST	P	B	1	N	L	48	B	7.93	G27-139A0050.jpg	G27-139I0051.jpg	32.36683	-88.71455	S	0	0
	ST	P	X		N	L	48	B	6.53	G27-140A0034.jpg	G27-140I0035.jpg	32.36778	-88.71453	V	36	0
	ST	P	B	1	N	L	48	B	12.59	G27-141A0020.jpg	G27-141I0021.jpg	32.36880	-88.71450	V	36	0
	ST	P	X		N	L	48	B	5.08	G27-144A0019.jpg	G27-144I0020.jpg	32.36411	-88.71433	S		8

Definitions:Asset Type: Manhole=M; E=End of Line; C=CleanoutManhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;

H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking

Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: InchesInflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=SevereManhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete; SB=Sealed BrickRim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	ST	P	X		N	L	48	B	5.45	G27-160A0038.jpg	G27-160I0039.jpg	32.36492	-88.71303	S		0
	ST	P	B	0.25	N	L	48	B	5.28	G27-161A0027.jpg	G27-161I0028.jpg	32.36494	-88.71306	S		0
	ST	P	X		N	L	48	C	6.60	G27-161AA0022.jpg	G27-161AI0023.jpg	32.36494	-88.71252	S		0
	ST	P	X	0	N	L	48	B	10.29	G27-162A0039.jpg	G27-162I0040.jpg	32.36578	-88.71303	S	0	0
	ST	P								G27-162AA0047.jpg	No Internal Photo					
	ST	P	B	1	N	L	48	B	17.66	G27-163A0031.jpg	G27-163I0032.jpg	32.36681	-88.71303	S	0	1
	ST	P	X		N	L	48	B	6.15	G27-164A0010.jpg	G27-164I0011.jpg	32.36861		S	0	1
	ST	P	B	1	N	M	48	B	8.66	G27-165A0019.jpg	G27-165I0020.jpg	32.36775	-88.71306	S		1
	ST	P	X		N	M	36	B	4.66	G27-171A0001.jpg	G27-171I0002.jpg	32.36778	-88.71259	V	36	2
	ST	P								G27-171AA0006.jpg	No Internal Photo					
	ST	P	B	0.25	N	M	48	B	5.40	G27-172A0046.jpg	G27-172I0047.jpg	32.36333	-88.71252	V	36	3
	ST	P	B	0.5	N	M	48	B	5.92	G27-173A0041.jpg	G27-173I0042.jpg	32.36367	-88.71252	S		1
	ST	P	X		N	L	48	B	6.02	G27-174A0008.jpg	G27-174I0009.jpg	32.36411	-88.71250	V	24	0
	ST	P	B	1	N	M	48	B	6.20	G27-175A0015.jpg	G27-175I0016.jpg	32.36408	-88.71230	S		0
	YD	U	A	5	N	L	48	C	2.58	G27-175AA0020.jpg	G27-175AI0021.jpg	32.36400	-88.71233	S		0
	YD	U	A	3	N	L	48	C	2.38	G27-175BA0027.jpg	G27-175BI0028.jpg	32.36400	-88.71178	S		0
	ST	P	X		N	L	42	B	3.84	G27-176A0013.jpg	No Internal Photo	32.36350	-88.71230	S		1
	ST	P	X		N	L	48	C	10.32	G27-177A0016.jpg	G27-177I0017.jpg	32.36783	-88.71222	S		0
	ST	P	X		N	L	48	C	8.20	G27-178A0027.jpg	G27-178I0028.jpg	32.36678	-88.71220	S		0
	ST	P	B	1	N	M	48	B	6.41	G27-181A0021.jpg	G27-181I0022.jpg	32.36681	-88.71220	V	36	0
	ST	P	B	1	N	M	48	B	7.86	G27-182A0007.jpg	G27-182I0008.jpg	32.36781	-88.71217	V	36	0
	ST	P	X		N	L	48	B	5.34	G27-185A0017.jpg	G27-185I0018.jpg	32.36350	-88.71175	S		0.5
	YD	U	A	3	N	N	48	C	4.37	G27-185AA0023.jpg	G27-185AI0024.jpg	32.36358	-88.71172	S		0
	YD	U	A	2	N	L	24	C	1.53	G27-185BA0030.jpg	G27-185BI0031.jpg	32.36361	-88.71230	S		0
	ST	P	A	1	N	L	37	B	3.37	G27-187A0032.jpg	G27-187I0033.jpg	32.36683	-88.71144	S		0
	ST	P	X		N	L	48	B	4.62	G27-188A0033.jpg	G27-188I0034.jpg	32.36408	-88.71133	V	21	6
	SH	U	A	4	N	L	36	B	3.97	G27-189A0001.jpg	G27-189I0002.jpg	32.36769	-88.71139	S		4
	ST	P	X		N	L	36	B	4.42	G27-191A0038.jpg	G27-191I0039.jpg	32.36683	-88.71133	S		2
	ST	P	B	0.5	N	M	48	B	5.11	G27-193A0014.jpg	G27-193I0015.jpg	32.36781	-86.71133	S		0
	SH	U	A	3	N	L	36	B	3.52	G27-193AA0021.jpg	G27-193AI0022.jpg	32.36783	-88.71130	S		1
	ST	P	B	1	N	M	36	B	2.85	G27-195A0052.jpg	G27-195I0053.jpg	32.36411	-88.71105	S		0
	ST	P	A	0.5	N	M	40	B	3.47	G27-196A0033.jpg	G27-196I0034.jpg	32.36350	-88.71098	V	36	0
	ST	P	X		N	L	36	B	3.40	G27-198A0049.jpg	G27-198I0050.jpg	32.36408	-88.70983	V	36	2
	ST	P	X		N	M	48	B	4.26	G27-200A0001.jpg	G27-200I0002.jpg	8.76417	-88.71311	V	36	0
	ST	P								G27-205A0024.jpg	No Internal Photo					
	ST	P								G27-206A0030.jpg	No Internal Photo					
	SH	U	X		N	N	48	B	1.46	G27-207A0018.jpg	G27-207I0019.jpg	32.36711	-88.71133	S		0
	ST	P								G27-208A0037.jpg	No Internal Photo					
	ST	P	X	0	N	L	48	B	6.67	G27-266A0008.jpg	G27-266I0009.jpg	32.36483	-88.71461	S	0	0

Definitions:

Asset Type: Manhole=M; E=End of Line; C=Cleanout

Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;

H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking

Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	ST	P	B	0.25	N	M	48	B	15.83	H27-223A0061.jpg	H27-223I0062.jpg	32.36786	-88.70875	S		1
	ST	P	X		N	L	36	B	4.91	H27-225A0045.jpg	H27-225I0046.jpg	32.36850	-88.70872	S		0
	ST	P	X		N	L	48	B	3.61	H27-228A0021.jpg	H27-228I0022.jpg	32.36869	-88.70966	S		0.5
	ST	P	B	0.25	N	L	48	B	6.29	H27-234A0026.jpg	H27-234I0027.jpg	32.36889	-88.70961	S		0
	ST	P								No Area Photo	No Internal Photo					
	ST	P	X		N	N	48	B	5.60	H31-165A0014.jpg	H31-165I0015.jpg	32.39706	-88.69522	S		0
	ST	P	B	6	N	N				H31-165AA0019.jpg	No Internal Photo	32.39695	-88.69556			
	ST	P	X		N	N	48	B	5.40	H31-166A0020.jpg	H31-166I0021.jpg	32.39745	-88.69439	S		0
	ST	P	X		N	N	48	B	6.16	H31-167A0008.jpg	H31-167I0009.jpg	32.39689	-88.69395	S		0
	ST	P	X		N	N	48	B	8.90	H31-168A0054.jpg	H31-168I0055.jpg	32.39772	-88.69380	S		0
	ST	P	X		N	N	48	B	9.38	H31-169A0001.jpg	H31-169I0002.jpg	32.39711	-88.69328	S		0
	ST	P	X		N	N	48	B	5.64	H31-170A0027.jpg	H31-170I0028.jpg	32.39817	-88.69617	S		2
	ST	P	X		N	N	48	B	6.52	H31-171A0031.jpg	H31-171I0032.jpg	32.39853	-88.69542	S		0
	ST	P	X		N	N	48	B	14.60	H31-172A0035.jpg	H31-172I0036.jpg	32.39919	-88.69458	S		0
	ST	P	X		N	N	48	B	7.28	H31-174A0045.jpg	H31-174I0046.jpg	32.39839	-88.69389	S		5
	ST	P	X		N	N	48	B	8.58	H31-175A0050.jpg	H31-175I0051.jpg	32.39769	-88.69383	S		0
	ST	P	X		N	L	48	B	10.94	H31-176A0040.jpg	H31-176I0041.jpg	32.39925	-88.69444	S		0
	YD	U	X		N	N	48	SB	8.48	H31-177A0039.jpg	H31-177I0040.jpg	32.39931	-88.69325	S		0
	FD	U	A	8	N	N	48	C	10.04	H31-178A0042.jpg	H31-178I0043.jpg	32.39847	-88.69319	S		0
	YD	U	A	1	N	N	48	C	8.67	H31-179A0038.jpg	H31-179I0039.jpg	32.39869	-88.69278	S		0
	YD	U	A	4	N	N	48	C	11.06	H31-180A0046.jpg	H31-180I0047.jpg	32.39286	-88.69275	S		0
	ST	P	X		N	N	48	B	7.96	H32-077A0013.jpg	H32-077I0014.jpg	32.40350	-88.69852	S		2
	YD	U								No Area Photo	No Internal Photo					
	ST	P	X		N	L	48	B	6.20	H32-079A0001.jpg	H32-079I0002.jpg	32.40275	-88.69836	S		1
	ST	P	X		N	L	48	B	5.48	H32-080A0020.jpg	H32-080I0021.jpg	32.40331	-88.69850	S		2
	ST	P								No Area Photo	No Internal Photo					
	ST	P	X		N	L	48	B	6.10	H32-085A0007.jpg	H32-085I0008.jpg	32.40275	-88.69789	S		0
	ST	P	X		N	N	48	B	7.18	H32-088A0006.jpg	H32-088I0007.jpg	32.40358	-88.69791	S		2
	ST	P	X		N	L	48	B	4.70	H32-089A0067.jpg	H32-089I0068.jpg	32.40067	-88.69772	S		3
	ST	P	X		N	L	48	B	6.18	H32-091A0001.jpg	H32-091I0002.jpg	32.40342	-88.69744	S		0
	ST	P	X		N	L	48	B	6.54	H32-092A0012.jpg	H32-092I0013.jpg	32.40278	-88.69736	S		0
	ST	P	X		N	L	48	B	5.46	H32-093A0001.jpg	H32-093I0002.jpg	32.40086	-88.69744	S		0
	ST	P	X		N	L	48	B	5.58	H32-094A0061.jpg	H32-094I0062.jpg	32.40089	-88.69728	S		4
	YD	U	X		N	N	48	B	5.42	H32-095A0005.jpg	H32-095I0006.jpg	32.40150	-88.69700	S		0
	ST	P	X		N	L	48	B	5.86	H32-097A0001.jpg	H32-097I0002.jpg	32.40400	-88.69678	S		0
	ST	P	X		N	L	48	B	7.26	H32-099A0010.jpg	H32-099I0011.jpg	32.40445	-88.69675	S		0
	SH	U	X		N	N	48	B	5.58	H32-099AA0016.jpg	H32-099AI0017.jpg	32.40447	-88.69681	S		0
	SH	U								H32-099BA0032.jpg	No Internal Photo	32.40478	-88.69681			
	ST	P	X		N	L	48	B	7.08	H32-101A0021.jpg	H32-101I0022.jpg	32.40508	-88.69675	S		0

Definitions:Asset Type: Manhole=M; E=End of Line; C=CleanoutManhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate; H=HomeownerSurface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking Lot; WB=Within Building/PropertySurface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: InchesInflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=SevereManhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed BrickRim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	ST	P	X		N	L	48	C	7.72	H32-122A0045.jpg	H32-122I0046.jpg	32.40217	-88.69481	S		0
	ST	P								No Area Photo	No Internal Photo					
	DD	U	B	6	N	M	48	B	5.64	H32-124A0059.jpg	H32-124I0060.jpg	32.40278	-88.69466	S		4
	ST	P	X		Y	L	48	B	6.07	H32-125A0035.jpg	H32-125I0036.jpg	32.40272	-88.69486	S		0
	YD	U	B	7						No Area Photo	No Internal Photo	32.40278	-88.69447			
	SH	U	X		N	L	48	C	5.29	H32-127A0049.jpg	H32-127I0050.jpg	32.40178	-88.69466	S		0
	YD	U	X		N	N	48	C	8.64	H32-131A0055.jpg	H32-131I0056.jpg	32.40181	-88.69464	S		0
	YD	U	X		N	L	48	B	3.98	No Area Photo	No Internal Photo	32.40100	-88.69442	S		3
	TW	U								No Area Photo	No Internal Photo					
	YD	U	A	30	N	N	48	C	8.71	H32-142A0022.jpg	H32-142I0023.jpg	32.40097	-88.69431	S		0
	TW	U								No Area Photo	No Internal Photo					
	TW	U	A	28	N	L	48	C	10.06	H32-145A0011.jpg	H32-145I0012.jpg	32.40050	-88.69422	S		0
	ST	P	X		N	M	48	B	5.98	H32-149A0065.jpg	H32-149I0066.jpg	32.40272	-88.69395	S		0
	ST	P	X		N	L	48	B	6.84	H32-153A0041.jpg	H32-153I0042.jpg	32.40014	-88.69347	S		6
	ST	P	X		N	N	48	SB	5.86	H32-154A0045.jpg	H32-154I0046.jpg	32.40055	-88.69334	S		0
	ST	P	X		N	M	48	B	5.40	H32-155A0050.jpg	H32-155I0051.jpg	32.40155	-88.69328	S		0
	ST	P	X		N	L	48	B	5.88	H32-155AA0055.jpg	H32-155AI0056.jpg	32.40253	-88.69319	S		0
	ST	P	X		N	N	48	B	7.17	H32-164A0031.jpg	H32-164I0032.jpg	32.39842	-88.69395	S		0
	YD	U	A	4	N	L	48	SB	9.76	H32-165A0036.jpg	H32-165I0037.jpg	32.39978	-88.69389	S		0
	TW	U								No Area Photo	No Internal Photo					
	ST	P	X		N	N	48	B	6.64	No Area Photo	No Internal Photo	32.38275	-88.67934	S		1
	ST	P								No Area Photo	No Internal Photo					
	ST	P								No Area Photo	No Internal Photo					
)	ST	P	X		N	M	48	B	4.72	I29-065A0078.jpg	I29-065I0079.jpg	32.38283	-88.68314	S		3
	SH	U	A	44	N	N	60	C	7.26	I29-066A0070.jpg	I29-066I0071.jpg	32.38203	-88.68272	S		3
	YD	U								No Area Photo	No Internal Photo					0
	ST	P								No Area Photo	No Internal Photo					
	ST	P	X		N	L	48	C	7.16	I29-075A0018.jpg	I29-075I0019.jpg	32.38278	-88.67939	S		0
	ST	P	X		N	L	48	B	4.70	I29-082A0020.jpg	I29-082I0021.jpg	32.38280	-88.68256	S		3
	ST	P	X		N	L	48	B	4.32	I29-082AA0026.jpg	I29-082AI0027.jpg	32.38295	-88.68261	S		0
	ST	P	X		N	L	48	B	6.80	I29-083A0031.jpg	I29-083I0032.jpg	32.38334	-88.68264	S		3
	ST	P	X		N	L	48	B	6.32	I29-084A0036.jpg	I29-084I0037.jpg	32.38378	-88.68261	S		4
	ST	P	X		N	L	48	B	8.64	I29-085A0042.jpg	I29-085I0043.jpg	32.38419	-88.68259	S		0
	ST	P	X		N	L	48	B	9.42	I29-086A0047.jpg	I29-086I0048.jpg	32.38475	-88.68261	S		3
	ST	P	X		N	L	48	B	6.50	I29-087A0067.jpg	I29-087I0068.jpg	32.38342	-88.68172	S		2
	YD	U	B	1	N	M	48	B	6.58	I29-088A0072.jpg	I29-088I0073.jpg	32.38342	-88.68175	S		2
	SH	U	X		N	L	48	SB	5.66	I29-089A0080.jpg	I29-089I0081.jpg	32.38403	-88.68172	S		0
	SH	U	X		N	N	48	B	8.09	I29-090A0055.jpg	I29-090I0056.jpg	32.38458	-88.68172	S		0
	ST	P	Y		N	L	48	R	7.10	I29-145A0059.jpg	I29-145I0060.jpg	32.38283	-88.68175	S		2

Definitions:

Asset Type: Manhole=M; E=End of Line; C=Cleanout

Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;

H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking

Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete; SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	ST	P								I29-163A0023.jpg	No Internal Photo	32.38172	-88.67989			
	ST	P	X		N	L	48	B	6.84	I29-176A0061.jpg	I29-176I0062.jpg	33.38461	-88.68781	S		2
	ST	P	X		N	L	48	B	6.93	I29-177A0067.jpg	I29-177I0068.jpg	32.38461	-88.68767	S		0
	ST	P	X		N	L	48	B	6.41	I29-178A0071.jpg	I29-178I0072.jpg	32.38422	-88.68686	S		0
	ST	P								No Area Photo	No Internal Photo					0
	ST	P	X		N	L	48	C	6.80	I29-179A0001.jpg	I29-179I0002.jpg	32.38408	-88.68655	S		0
	ST	P	X		N	L	48	B	6.54	I29-180A0005.jpg	I29-180I0006.jpg	32.38364	-88.68561	S		0
	ST	P	X		N	L	48	C	6.80	I29-181A0010.jpg	I29-181I0011.jpg	32.38367	-88.68561	S		0
	SH	U	X		N	L	48	C	9.48	I29-182A0015.jpg	I29-182I0016.jpg	32.38336	-88.68464	S		6
	SH	U	A	12	N	N	60	C	10.12	I29-183A0029.jpg	I29-183I0030.jpg	32.38350	-88.68369	S		0
	PL	P	X		N	L	48	C	7.10	I29-184A0012.jpg	I29-184I0013.jpg	32.38250	-88.68303	S		0
	SH	U	A	56	N	N	48	C	9.04	I29-184AA0001.jpg	I29-184AI0002.jpg	32.38225	-88.68342	S		0
	SH	U	A	10	N	M	48	C	4.42	I29-184BA0006.jpg	I29-184BI0007.jpg	32.38222	-88.68339	S		0
	SH	U								I29-184CA0011.jpg	No Internal Photo	32.38144	-88.68269			
	ST	P								No Area Photo	No Internal Photo					
	SH	U	A	1	N	L	48	C	2.48	I29-184EA0008.jpg	I29-184EI0009.jpg	32.38242	-88.68391	S		0
	SH	U	A	29	N	N	48	C	9.48	I29-184FA0012.jpg	I29-184FI0013.jpg	32.38253	-88.68383	S		0
	SH	U	A	4	N	N	48	C	6.90	I29-184GA0001.jpg	I29-184GI0002.jpg	32.38206	-88.68428	S		0
	SH	U	B	6	N	S	48	C	7.88	I29-184HA0006.jpg	I29-184HI0007.jpg	32.38200	-88.68459	S		0
	SH	U	X		N	M	48	C	6.79	I29-184IA0011.jpg	I29-184II0012.jpg	32.38186	-88.68467	S		0
	SH	U	A	14	N	N	48	C	5.63	I29-184JA0015.jpg	I29-184JI0016.jpg	32.38167	-88.68467	S		0
	YD	U	A	6	N	N	48	C	4.96	I29-184KA0020.jpg	I29-184KI0021.jpg	32.38164	-88.68486	S		0
	SH	U	A	10	N	N	48	C	3.35	I29-184LA0026.jpg	I29-184LI0027.jpg	32.38139	-88.68486	S		0
	SH	U	A	5	N	L	48	C	2.44	I29-184MA0030.jpg	I29-184MI0031.jpg	32.38108	-88.68486	S		0
	SH	U	X		N	S	48	C	4.78	I29-184NA0035.jpg	I29-184NI0036.jpg	32.38033	-88.68489	S		0
	PL	P	X		N	N	60	C	7.88	I29-185A0034.jpg	I29-185I0035.jpg	32.38258	-88.68317	S		0
	DW	P	X		N	N	48	SB	4.86	I30-001A0017.jpg	I30-001I0018.jpg	32.38519	-88.68611	S		6
	PL	P	X		N	N	48	C	5.14	I30-002A0013.jpg	I30-002I0014.jpg	32.38508	-88.68539	S		2
	ST	P	X		N	N	48	B	4.38	I30-003A0008.jpg	I30-003I0009.jpg	32.38511	-88.68461	S		4
	ST	P								No Area Photo	No Internal Photo					
	ST	P	X		N	N	48	B	6.56	I30-005A0001.jpg	I30-005I0002.jpg	32.38519	-88.68394	S		2
	GU	P	X		N	M	48	B	4.64	I30-010A0014.jpg	I30-010I0015.jpg	32.39122	-88.69141	S		0
	ST	P								I30-010AA0020.jpg	No Internal Photo	32.39080	-88.69147			
	TW	U	A	41	N	L	48	C	12.50	I30-011A0017.jpg	I30-011I0018.jpg	32.38889	-88.69114	S		2
	TW	U	A	28	N	N	48	C	10.82	I30-012A0021.jpg	I30-012I0022.jpg	32.38889	-88.69078	S		10
	TW	U	A	20	N	L	48	C	5.84	I30-013A0005.jpg	I30-013I0006.jpg	32.39053	-88.69075	S		0
	TW	U								No Area Photo	No Internal Photo					
	TW	U	A	16	N	N	48	SB	4.98	No Area Photo	No Internal Photo	32.39089	-88.69072	S		0
	ST	P	X		N	N	48	B	6.52	No Area Photo	No Internal Photo	32.39236	-88.69067	S		2

Definitions:

Asset Type: Manhole=M; E=End of Line; C=Cleanout

Manhole Inspection Status: Y=Yes; L=Could Not Locate; B=Buried; O=Can Not Open; S=Surcharged; N=No Access; D=Dog; LG=Locked Gate;

H=Homeowner

Surface Cover: SH=Shoulder; DD=Drainage Ditch; DW=Driveway; ST=Street; FD=Field; SW=Sidewalk; AL=Alley; YD=Yard; GU=Gutter; PL=Parking

Lot; WB=Within Building/Property

Surface Material: P=Paved; U=Unpaved Manhole Grade: A=Above Grade; X=At Grade; B=Below Grade Grade: Inches

Inflow Dish: Y=Yes; N=No Inflow Potential: N=None; L=Light; M=Medium; S=Severe

Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	ST	P	X		N	L	48	B	7.82	I30-069A0052.jpg	I30-069I0053.jpg	32.38517	-88.68261	S		0
	SH	U								I30-069AA0058.jpg	No Internal Photo	32.38531	-88.68259			0
	YD	U	X		N	N	48	SB	5.28	No Area Photo	No Internal Photo	32.38519	-88.68181	S		2
	ST	P	X		N	N	48	SB	6.88	No Area Photo	No Internal Photo	32.38550	-88.67983	V	4	0
	ST	P	X		N	L	48	C	11.55	I30-088A0027.jpg	I30-088I0028.jpg	32.38519	-88.68872	S		0
	ST	P	X		N	L	48	B	5.82	I30-090A0001.jpg	I30-090I0002.jpg	32.38861	-88.68822	S		0
	ST	P	X		N	L	48	B	6.13	I30-091A0005.jpg	I30-091I0006.jpg	32.38864	-88.68725	S		8
	ST	P	X		N	L	48	B	6.40	I30-092A0009.jpg	I30-092I0010.jpg	32.38858	-88.68703	S		0
	ST	U	B	48						I30-092AA0015.jpg	No Internal Photo	32.38803	-88.68706			
	ST	P	X		N	L	48	B	5.22	I30-093A0016.jpg	I30-093I0017.jpg	32.38861	-88.68647	S		0
	ST	P	X		N	L	48	C	6.76	I30-094A0021.jpg	I30-094I0022.jpg	32.38864	-88.68555	S		0
	ST	P	X		N	L	48	B	7.30	I30-095A0026.jpg	I30-095I0027.jpg	32.38858	-88.68506	S		0
	ST	P	X		N	L	48	B	6.06	I30-096A0031.jpg	I30-096I0032.jpg	32.38936	-88.68472	S		6
	ST	P	X		N	N	48	B	11.98	I30-097A0043.jpg	No Internal Photo	32.38967	-88.68853	S		6
	ST	P	B	6						I30-098A0053.jpg	No Internal Photo	32.38967	-88.68839			
	ST	P	X		N	M	48	B	7.74	I30-099A0049.jpg	I30-099I0050.jpg	32.38956	-88.68700	S		0
	ST	P	X		N	L	48	B	3.74	I30-100A0059.jpg	I30-100I0060.jpg	32.38886	-88.68625	S		6
	ST	P	X		N	L	48	B	6.74	I30-101A0054.jpg	I30-101I0055.jpg	32.38939	-88.68608	S		0
	ST	P	X		N	M	48	B	6.36	I30-102A0044.jpg	I30-102I0045.jpg	32.38978	-88.68647	S		0
	ST	P	X		N	L	48	B	6.20	I30-105A0038.jpg	I30-105I0039.jpg	32.38969	-88.68550	S		0
	ST	P	X		N	L	48	B	7.82	I30-106A0062.jpg	I30-106I0063.jpg	32.39030	-88.68550	S		4
	ST	P	X		N	M	48	B	6.12	I30-107A0034.jpg	I30-107I0035.jpg	32.38967	-88.68430	S		3
	SH	U	X		N	L	48	B	5.42	I30-108A0029.jpg	I30-108I0030.jpg	32.39039	-88.68403	S		8
	ST	P	X		N	M	48	B	7.23	I30-109A0019.jpg	I30-109I0020.jpg	32.38536	-88.68880	S		0
	ST	P	X		N	L	48	B	7.82	I30-110A0015.jpg	I30-110I0016.jpg	32.38628	-88.68870	S		0
	PL	P	X		N	N	48	C	8.88	I30-111A0025.jpg	I30-111I0026.jpg	32.38611	-88.68867	S		0
	PL	P	X		N	L	48	C	9.60	I30-111AA0001.jpg	I30-111AI0002.jpg	32.38614	-88.68808	S		6
	ST	P	X		N	L	48	C	9.26	I30-111BA0006.jpg	I30-111BI0007.jpg	32.38689	-88.68808	S		3
	YD	U	X		N	M	48	C	8.96	I30-111CA0017.jpg	I30-111CI0018.jpg	32.38611	-88.68725	S		0
	YD	U	X		N	M	48	C	8.90	I30-111DA0011.jpg	I30-111DI0012.jpg	32.38731	-88.68775	S		0
	YD	U	X		N	L	48	C	9.20	I30-111EA0025.jpg	I30-111EI0026.jpg	32.38622	-88.68675	S		0
	PL	P	X		N	N	48	C	7.34	I30-111FA0022.jpg	I30-111FI0023.jpg	32.38567	-88.68736	S		4
	PL	P	X		N	L	48	C	7.84	I30-111GA0030.jpg	I30-111GI0031.jpg	32.38683	-88.68684	S		0
	YD	U	X		N	L	48	C	10.08	I30-111HA0035.jpg	I30-111HI0036.jpg	32.38725	-88.68689	S		0
	ST	P	X		N	M	48	B	9.30	I30-112A0008.jpg	I30-112I0009.jpg	32.38772	-88.68867	S		0
	ST	P	X		N	M	48	C	10.30	I30-113A0030.jpg	I30-113I0031.jpg	32.38692	-88.68864	S		0
	GU	P	X		N	M	48	B	10.54	I30-114A0001.jpg	I30-114I0002.jpg	32.38861	-88.68864	S		0
	ST	P	X		N	M	48	C	12.40	I30-115A0035.jpg	I30-115I0036.jpg	32.38786	-88.68861	S		0
	ST	P	X		N	L	48	C	11.28	I30-116A0039.jpg	I30-116I0040.jpg	32.38886	-88.68850	S		0

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Asset Type: Manhole=M; E=End of Line; C=Cleanout

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Manhole Diameter: Inches; Manhole Material: B=Brick; F=Fiberglass; C=Concrete; SC=Sealed Concrete, SB=Sealed Brick

Rim to Invert Distance: feet; Lid Type: S=Solid; V=Vented

	Surface Cover	Surface Material	Manhole Grade	Grade Inches	Inflow Dish	Inflow Potential	Manhole Diameter	Manhole Material	Rim to Invert Depth - ft	Area Photo	Internal Photo	GPS N	GPS WO	Lid Type	No. Vent Holes	Debris Depth
	YD	U	A	7	N	N	48	C	9.40	I31-014A0013.jpg	I31-014I0014.jpg	32.39736	-88.69125	S		0
	YD	U	A	6	N	N	48	C	6.06	I31-014AA0025.jpg	I31-014AI0026.jpg	32.39817	-88.69133	S		0
	YD	U	A	4	N	N	48	C	7.26	I31-014BA0030.jpg	I31-014BI0031.jpg	32.39894	-88.69122	S		0
	ST	P	X		N	L	48	C	7.46	I31-015A0001.jpg	I31-015I0002.jpg	32.39233	-88.69122	S		0
	ST	P	X		N	N	48	B	6.52	I31-016A0040.jpg	I31-016I0041.jpg	32.39236	-88.69067	S		3
	ST	P	X		N	M	48	B	4.14	I31-017A0047.jpg	I31-017I0048.jpg	32.39344	-88.69061	S		0
	TW	U								No Area Photo	No Internal Photo					
	TW	U	A	26	N	N	48	C	8.06	I31-019A0005.jpg	I31-019I0006.jpg	32.39578	-88.69064	S		0
	ST	P	X		N	L	48	B	9.20	I31-023A0001.jpg	I31-023I0002.jpg	32.39231	-88.68989	S		0
	YD	U	A	10	N	N	48	C	7.26	I31-023AA0006.jpg	I31-023AI0007.jpg	32.39328	-88.68978	S		0
	TW	U								No Area Photo	No Internal Photo					
	TW	U	A	27	N	L	48	C	7.28	I31-025A0006.jpg	I31-025I0007.jpg	32.39364	-88.68972	S		0
	TW	U								No Area Photo	No Internal Photo					
	TW	U	A	16	N	N	48	C	7.78	I31-028A0001.jpg	I31-028I0002.jpg	32.39578	-88.69064	S		0
	TW	U								No Area Photo	No Internal Photo					
	TW	U								No Area Photo	No Internal Photo					
	YD	U	A	10	N	N	48	C	10.14	I31-092A0051.jpg	I31-092I0052.jpg	32.39769	-88.69217	S		0
	YD	U	A	6	N	L	48	C	9.92	I31-093A0055.jpg	I31-093I0056.jpg	32.39742	-88.69211	S		0
	YD	U	B	14						I31-094A0060.jpg	No Internal Photo	32.39747	-88.69197			

Appendix B

Original Pump Station Inventory From Meridian

INSTALLED

PUMP NO. 1	
MAKE	MODEL
SPECIFICS	
VENDOR	

PUMP NO. 2	
MAKE	MODEL
SPECIFICS	
VENDOR	

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION THE COMMONS
LOCATION

INSTALLED

PUMP NO. 1	
MAKE	MODEL
SPECIFICS	
VENDOR	

PUMP NO. 2	
MAKE	MODEL
SPECIFICS	
VENDOR	

CONTROLLER

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION KNIGHT PARKER RD
LOCATION

INSTALLED

PUMP NO. 1
MAKE
SPECIFICS
VENDOR

MODEL

PUMP NO. 2
MAKE
SPECIFICS
VENDOR

MODEL

CONTROLLER

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION RIVER BIRCH LIFT STATION
LOCATION HIGHWAY 19 NORTH & 67 AVE LOOP

INSTALLED

12/1/05

PUMP NO. 1	
MAKE	MODEL
SPECIFICS	
VENDOR	

PUMP NO. 2	
MAKE	MODEL
SPECIFICS	
VENDOR	

CONTROLLER

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION	LOVERS LANE	INSTALLED 1986	MOTERS REPLACED 1998
LOCATION	OLD 8TH STREET ROAD & LOVERS LANE		

PUMP NO. 1				
MAKE	PUMPEX	MODEL	K102-CA3200	
SPECIFICS	4" FLANGE 230 VOLT 3 PHASE		6.5 H/P	TDH40 GPM192
VENDOR	J. H. WRIGHT			

PUMP NO. 2				
MAKE	PUMPEX	MODEL	K102-CA3200	
SPECIFICS	4" FLANGE 230 VOLT 3 PHASE 6.5 H/P			TDH40 GPM192
VENDOR	J. H. WRIGHT			

CONTROLLER FLYGT

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION	NORTH HILL STREET	INSTALLED	4/1/04
LOCATION	NORTH HILL STREET IN YARD		
MAKE		MODEL	
SPECIFICS			
VENDOR	J.H.WRIGHT		
CONTROLLER	HOME MADE		

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION	56 TH PLACE	INSTALLED	1999
LOCATION	DEAD END 56TH PLACE		
MAKE	BARNS	MODEL	
SPECIFICS	220 VOLT	S/PHASE	2 H/P
VENDOR	J.H. WRIGHT		25 TDH 75 GPM
CONTROLLER	J H WRIGHT		

XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
DATE / 01-02		POWER BILL			TOTAL YTD	
10/1/00	0.00				0.00	
11/1/00	0.00				0.00	
12/1/00	0.00				0.00	
1/1/00	0.00				0.00	
2/1/00	0.00				0.00	
3/1/00	0.00				0.00	
4/1/00	0.00				0.00	
5/1/00	0.00				0.00	
6/1/00	0.00				0.00	
7/1/00	0.00				0.00	
8/1/00	0.00				0.00	
9/1/00	0.00				0.00	
	0.00				0.00	
TOTAL FOR YR	0.00				0.00	

XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
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LIFT STATION	10 AVE NORTH	INSTALLED	2003
LOCATION	winmill sub		
MAKE	4" BARNES	MODEL	4SE2824L
SPECIFICS	S/P 230 VOLT		
VENDOR	j h wright	12.6 FLA	S/N 748476
CONTROLLER	c.s.i. jackson ms		

XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
DATE / 01-02		POWER BILL			TOTAL YTD	
10/1/00	0.00				0.00	
11/1/00	0.00				0.00	
12/1/00	0.00				0.00	
1/1/00	0.00				0.00	
2/1/00	0.00				0.00	
3/1/00	0.00				0.00	
4/1/00	0.00				0.00	
5/1/00	0.00				0.00	
6/1/00	0.00				0.00	
7/1/00	0.00				0.00	
8/1/00	0.00				0.00	
9/1/00	0.00				0.00	
	0.00				0.00	
TOTAL FOR YR	0.00				0.00	

XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
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S/N753304

LIFT STATION	38TH STREET LIFT STATION	INSTALLED	11/1/00
LOCATION	38TH STREET & 24 AVE		
MAKE	PUMPEX	MODEL	K80F-CB-3180
SPECIFICS	230 VOLT S/P	TDH 34	150 GPM
VENDOR	J. H. WRIGHT		
CONTROLLER	CONTROL SYSTEMS INC	RONK	ADD A PHASE

XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXX	XXXXXXXXXX
DATE / 01-02		POWER BILL			TOTAL YTD	
10/1/00	0.00				0.00	
11/1/00	0.00				0.00	
12/1/00	0.00				0.00	
1/1/00	0.00				0.00	
2/1/00	0.00				0.00	
3/1/00	0.00				0.00	
4/1/00	0.00				0.00	
5/1/00	0.00				0.00	
6/1/00	0.00				0.00	
7/1/00	0.00				0.00	
8/1/00	0.00				0.00	
9/1/00	0.00				0.00	
	0.00				0.00	
TOTAL FOR YR	0.00				0.00	

XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXX	XXXXXXXXXX
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LIFT STATION	COTTON GIN ROAD	INSTALLED	11/20/03
LOCATION	COTTON GIN ROAD & RED BARON RD		
MAKE	PUMPEX	MODEL	K154-FC-D3290
SPECIFICS	6" 480 VOLT 3 PHASE 56 H/P 64.1	90 tdh	1600 gpm
VENDOR	J H WRIGHT		
CONTROLLER	C.S.I.		

XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
DATE / 01-02		POWER BILL			TOTAL YTD	
10/1/00	0.00				0.00	
11/1/00	0.00				0.00	
12/1/00	0.00				0.00	
1/1/00	0.00				0.00	
2/1/00	0.00				0.00	
3/1/00	0.00				0.00	
4/1/00	0.00				0.00	
5/1/00	0.00				0.00	
6/1/00	0.00				0.00	
7/1/00	0.00				0.00	
8/1/00	0.00				0.00	
9/1/00	0.00				0.00	
	0.00				0.00	
TOTAL FOR YR	0.00				0.00	

XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
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LIFT STATION	SOUTH INDUSTRIAL PARK		INSTALLED	#1	01/16/92	#2	09/9/91
LOCATION	HIGHWAY 11 SOUTH						
MAKE	BARNES	MODEL	4SE15034L				
SPECIFICS	230 VOLT 3PH 15 HP FLA. 42		TDH 30	GPM	750		
VENDOR	J H WRIGHT						
CONTROLLER	CONTROL SYSTEMS INC.	INSTALLED	01/22/2000				

10/1/00	51.38	51.38
11/1/00	0.00	51.38
12/1/00	0.00	51.38
1/1/00	0.00	51.38
2/1/00	0.00	51.38
3/1/00	0.00	51.38
4/1/00	0.00	51.38
5/1/00	0.00	51.38
6/1/00	0.00	51.38
7/1/00	0.00	51.38
8/1/00	0.00	51.38
9/1/00	0.00	51.38
	0.00	51.38
TOTAL FOR YR	0.00	51.38

LIFT STATION
LOCATION
MAKE
SPECIFICS
VENDOR
CONTROLLER

TOM REGAN ROAD
65 AVE
BARNES
230 VOLT 3 \PH FLA.18
J H WRIGHT
CONTROL SYSTEM INC.

MODEL
4SE4534L
TDH 30
GPM 100

INSTALLED 04/96

XX

DATE /00-01POWER BILLTOTAL YTD

10/1/00	12.66	12.66
11/1/00	0.00	12.66
12/1/00	0.00	12.66
1/1/00	0.00	12.66
2/1/00	0.00	12.66
3/1/00	0.00	12.66
4/1/00	0.00	12.66
5/1/00	0.00	12.66
6/1/00	0.00	12.66
7/1/00	0.00	12.66
8/1/00	0.00	12.66
9/1/00	0.00	12.66
	0.00	12.66
TOTAL FOR YR	0.00	12.66

XX

problems

LIFT STATION 70TH PLACE INSTALLED 11/19/96
 LOCATION OLD 8TH STREET ROAD
 MAKE GOULD MODEL 4SD12J1AA
 SPECIFICS 230 VOLT 3\PH FLA 16.6 TDH 35 GPM200
 VENDOR GENERL PUMP
 CONTROLLER CONTROL SYSTEMS

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	53.06	53.06
11/1/00	0.00	53.06
12/1/00	0.00	53.06
1/1/00	0.00	53.06
2/1/00	0.00	53.06
3/1/00	0.00	53.06
4/1/00	0.00	53.06
5/1/00	0.00	53.06
6/1/00	0.00	53.06
7/1/00	0.00	53.06
8/1/00	0.00	53.06
9/1/00	0.00	53.06
	0.00	53.06
TOTAL FOR YR	0.00	53.06

problem	cost	total
#1 12/4/00 phase monitor out phase monitor& 8 pin socket		

LIFT STATION	65 AVE	INSTALLED	#11992	#2 1994
LOCATION	65 AVE			
MAKE	#1YEOMAN	#2 PUMPEX	MOD	#1\S56415 #2\K106-FCC3245
SPECIFICS	230 VOLT 3 \PH	#1\ 25H\P	#2\ 24 H\P	TDH 35 GPM 1200
VENDOR	#1\GENERL PUMP	#2 \J H WRIGHT		
CONTROLLER	CONTROL SYSTEMS INC			

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	325.04	325.04
11/1/00	0.00	325.04
12/1/00	0.00	325.04
1/1/00	0.00	325.04
2/1/00	0.00	325.04
3/1/00	0.00	325.04
4/1/00	0.00	325.04
5/1/00	0.00	325.04
6/1/00	0.00	325.04
7/1/00	0.00	325.04
8/1/00	0.00	325.04
9/1/00	0.00	325.04
	0.00	325.04
TOTAL FOR YR	0.00	325.04

XX

LIFT STATION	LOWER BOUNDS ROAD	INSTALLED	9/1/04
LOCATION	CHANDLER ROAD		
MAKE	PUMPEX	MODEL	18 H/P K86-VE1190 MYERS
SPECIFICS	230 VOLT 3\PH TDH150 GPM150		#1 PUMP
VENDOR	J.H. WRIGHT	GULF COAST PUMPS	
CONTROLLER	CONTROLS OF HOUSTON		

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	136.86	136.86
11/1/00	0.00	136.86
12/1/00	0.00	136.86
1/1/00	0.00	136.86
2/1/00	0.00	136.86
3/1/00	0.00	136.86
4/1/00	0.00	136.86
5/1/00	0.00	136.86
6/1/00	0.00	136.86
7/1/00	0.00	136.86
8/1/00	0.00	136.86
9/1/00	0.00	136.86
	0.00	136.86
TOTAL FOR YR	0.00	136.86

XX

PROBLEMS	REPLACED # 1PUMP WITH REBUILT FROM HWY 39 #2	DATE	10/4/00	COST	\$3,100.00
11-28	re replaced #2pump checkvalve			cost	
	1/22/04 replaced #1 pump with pumpex			cost	\$5,870.00
09/2004	INSTALL MYERS PUMP				

LIFT STATION	8 TH AVE NORTH	INSTALLED	06\90
LOCATION	8TH AVE	pump sn/ 61-26398-B	[mod SS4410]
MAKE	RELIANCE	MODEL	X210TY
SPECIFICS	230 VOLT 3 PH 10 H\P	FLA.37	tdh 102
VENDOR	GENERL PUMP	ID NO#	P21G2701H-YP
CONTROLLER	CONTROL SYSTEMS INC.	GPM	120

XX

DATE /00-01	POWER BILL	TOTAL YTD
-------------	------------	-----------

10/1/00	14.68	14.68
11/1/00	0.00	14.68
12/1/00	0.00	14.68
1/1/00	0.00	14.68
2/1/00	0.00	14.68
3/1/00	0.00	14.68
4/1/00	0.00	14.68
5/1/00	0.00	14.68
6/1/00	0.00	14.68
7/1/00	0.00	14.68
8/1/00	0.00	14.68
9/1/00	0.00	14.68
TOTAL FOR YR	0.00	14.68

XX

[illegible]

TOTAL FOR YR

M40---NEWELL ROAD #1STATION.xls

LIFT STATION				INSTALLED	
LOCATION	56 TH COURT			INSTALLED	9/12/96
MAKE	BARNES	MODEL	4SE2024L		
SPECIFICS	220 VOLT S/P 3/4 H/P FLA. 10 TDH 25 GPM 50				
VENDOR	J H WRIGHT				
CONTROLLER	CONTROLS OF HOUSTON				

XX) XXXXXXXXX		
DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	13.24	13.24
11/1/00	0.00	13.24
12/1/00	0.00	13.24
1/1/00	0.00	13.24
2/1/00	0.00	13.24
3/1/00	0.00	13.24
4/1/00	0.00	13.24
5/1/00	0.00	13.24
6/1/00	0.00	13.24
7/1/00	0.00	13.24
8/1/00	0.00	13.24
9/1/00	0.00	13.24
	0.00	13.24
TOTAL FOR YR	0.00	13.24

XX) XXXXXXXXX

LIFT STATION	NORTH WOOD EAST APT	INSTALLED	1993	INSTALLED
LOCATION	HIGH WAY 39 NORTH			
MAKE	BARNES	MODEL	4SE2854IMS	#2 ABS
SPECIFICS	230 VOLT 3\PH 2.8 H/P	FLA 10	TDH 30 GPM 150	5 H/P
VENDOR	J H WRIGHT			
CONTROLLER	CONTROLS OF HOUSTON			

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	129.28	129.28
11/1/00	0.00	129.28
12/1/00	0.00	129.28
1/1/00	0.00	129.28
2/1/00	0.00	129.28
3/1/00	0.00	129.28
4/1/00	0.00	129.28
5/1/00	0.00	129.28
6/1/00	0.00	129.28
7/1/00	0.00	129.28
8/1/00	0.00	129.28
9/1/00	0.00	129.28
	0.00	129.28
TOTAL FOR YR	0.00	129.28

XX

4\ 2005

EJ-50DL4MS
230 V 3 PHASE

=

LIFT STATION	61 COURT	INSTALLED	2003
LOCATION	61 COURT		
MAKE	BARNES		
SPECIFICS	230 VOLT 3\PH FLA	MOD	
VENDOR	J H WRIGHT	GPM 75	
CONTROLLER	E .G. GULF STATE ENG.		

XX		
DATE /00-01	POWER BILL	TOTAL YTD

10/1/00	50.78	50.78
11/1/00	0.00	50.78
12/1/00	0.00	50.78
1/1/00	0.00	50.78
2/1/00	0.00	50.78
3/1/00	0.00	50.78
4/1/00	0.00	50.78
5/1/00	0.00	50.78
6/1/00	0.00	50.78
7/1/00	0.00	50.78
8/1/00	0.00	50.78
9/1/00	0.00	50.78
	0.00	50.78
TOTAL FOR YR	0.00	50.78

XX
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LIFT STATION	HIGH WAY 39 #1 STATION	INSTALLED #1 6\25\00	#2 7\10\92
LOCATION	HIGH WAY 39 NORTH		
MAKE	#1 PUMPEX K152F-CA-3275	BARNES	MODEL 6SE48044HL
SPECIFICS	480 VOLT 3\PH 36HP\ TDH 75 \GPM1200	480 VOLT/3PH-40-HP/TDH 75	GPM1200
VENDOR	J H WRIGHT		
CONTROLLER	CONTROL SYSTEMS INC. INSTALLED 9\99		

XX

DATE /00-01	POWER BILL	TOTAL YTD
-------------	------------	-----------

10/1/00	36.56	36.56
11/1/00	0.00	36.56
12/1/00	0.00	36.56
1/1/00	0.00	36.56
2/1/00	0.00	36.56
3/1/00	0.00	36.56
4/1/00	0.00	36.56
5/1/00	0.00	36.56
6/1/00	0.00	36.56
7/1/00	0.00	36.56
8/1/00	0.00	36.56
9/1/00	0.00	36.56
	0.00	36.56
TOTAL FOR YR	0.00	36.56

XX

		COST	TOTAL
problem 11/24/00	repair #1 pump	none	
	repair #2 pump (barnes)	\$1.760.00	
parts	replace 6 in check valve #1pump		
	replace 6 in check valve & valve		
parts	2 x4 ft flange nipple		
	8 flange ass kits		
	2 uniflanges 6"		
	1 custom flg spec. mach.		\$202.23

)

INSTALLED 11\28\98

DATE /00-01	POWER BILL	TOTAL YTD
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TOTAL FOR YR	28.00
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PROBLEMS

PARTS

XX)XXXXXXXXXX
DATE /00-01 POWER BILL TOTAL YTD

[illegible]

LIFT STATION DOG WOOD DRIVE INSTALLED 1995
LOCATION DOG WOOD DRIVE
MAKE BARNES MODEL 4SE11334L
SPECIFICS 230 VOLT 3\PH H\P 11.3 FLA.28 TDH 25 GPM 275
VENDOR J H WRIGHT
CONTROLLER CONTROLS OF HOUSTON

XX XXXXXXXXX
DATE /00-01 POWER BILL TOTAL YTD

10/1/00	63.20	63.20
11/1/00	0.00	63.20
12/1/00	0.00	63.20
1/1/00	0.00	63.20
2/1/00	0.00	63.20
3/1/00	0.00	63.20
4/1/00	0.00	63.20
5/1/00	0.00	63.20
6/1/00	0.00	63.20
7/1/00	0.00	63.20
8/1/00	0.00	63.20
9/1/00	0.00	63.20
	0.00	63.20
TOTAL FOR YR	0.00	63.20

XX XXXXXXXXX

[illegible]

10/1/00	10.56	10.56
11/1/00	0.00	10.56
12/1/00	0.00	10.56
1/1/00	0.00	10.56
2/1/00	0.00	10.56
3/1/00	0.00	10.56
4/1/00	0.00	10.56
5/1/00	0.00	10.56
6/1/00	0.00	10.56
7/1/00	0.00	10.56
8/1/00	0.00	10.56
9/1/00	0.00	10.56
	0.00	10.56
TOTAL YR	0.00	10.56

XXX) XXXXXXXX

INSTALLED 08\01\94

DATE /00-01	POWER BILL	TOTAL YTD
-------------	------------	-----------

10/1/00	11.91	11.91
11/1/00	0.00	11.91
12/1/00	0.00	11.91
1/1/00	0.00	11.91
2/1/00	0.00	11.91
3/1/00	0.00	11.91
4/1/00	0.00	11.91
5/1/00	0.00	11.91
6/1/00	0.00	11.91
7/1/00	0.00	11.91
8/1/00	0.00	11.91
9/1/00	0.00	11.91
	0.00	11.91
TOTAL FOR YR	0.00	11.91

XX) XXXXXXXXXX

INSTALLED

MODEL

SPECIFICS

CONTROLLER

DATE /00-01

POWER BILL

TOTAL YTD

10/1/00	19.78	19.78
11/1/00	0.00	19.78
12/1/00	0.00	19.78
1/1/00	0.00	19.78
2/1/00	0.00	19.78
3/1/00	0.00	19.78
4/1/00	0.00	19.78
5/1/00	0.00	19.78
6/1/00	0.00	19.78
7/1/00	0.00	19.78
8/1/00	0.00	19.78
9/1/00	0.00	19.78
	0.00	19.78
OR YR	0.00	19.78

TOTAL FOR YR

[illegible]

XXX XXXXXXXXX

10/1/00	16.51	16.51
11/1/00	0.00	16.51
12/1/00	0.00	16.51
1/1/00	0.00	16.51
2/1/00	0.00	16.51
3/1/00	0.00	16.51
4/1/00	0.00	16.51
5/1/00	0.00	16.51
6/1/00	0.00	16.51
7/1/00	0.00	16.51
8/1/00	0.00	16.51
9/1/00	0.00	16.51

0.00

[illegible]

INSTALLED #1 84 #2 3|00
1978
#2 BARNES 4SE5094L
#2 230 VOLT 3PH| 5HP 100GPM

10/1/00	14.08	14.08
11/1/00	0.00	14.08
12/1/00	0.00	14.08
1/1/00	0.00	14.08
2/1/00	0.00	14.08
3/1/00	0.00	14.08
4/1/00	0.00	14.08
5/1/00	0.00	14.08
6/1/00	0.00	14.08
7/1/00	0.00	14.08
8/1/00	0.00	14.08
9/1/00	0.00	14.08
	0.00	14.08
TOTAL FOR YR	0.00	14.08

PARTS	P-U-250 250 1COND TERM LUG	SOUTHERN ELE.	\$4.11
-------	----------------------------	---------------	--------

9/1/04

4SD52F3DA

'HASE

1.5 H/P

LIFT STATION	DAYS INN	INSTALLED	10\93	#2installed
LOCATION	HIGH WAY 80 EAST			
MAKE	BARNES	MODEL	4SE2834L	
SPECIFICS	230 VOLT 3\PH	2.8 H/P	TDH18	GPM 150
VENDOR	J H WRIGHT			
CONTROLLER	UNKNOWN			

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	27.07	27.07
11/1/00	0.00	27.07
12/1/00	0.00	27.07
1/1/00	0.00	27.07
2/1/00	0.00	27.07
3/1/00	0.00	27.07
4/1/00	0.00	27.07
5/1/00	0.00	27.07
6/1/00	0.00	27.07
7/1/00	0.00	27.07
8/1/00	0.00	27.07
9/1/00	0.00	27.07
	0.00	0.00
TOTAL FOR YR	0.00	27.07

XX

problem	cost	total
12/9/00 reoplaed #1 starter &thero over load		
#2 pump down orered new pump 12/11/00		

INSTALLED

MAKE

MODEL

SPECIFICS

VENDOR

CONTROLLER

XX) XXXXXXXXXX

DATE /00-01

POWER BILL

TOTAL YTD

10/1/00	214.99	214.99
11/1/00	0.00	214.99
12/1/00	0.00	214.99
1/1/00	0.00	214.99
2/1/00	0.00	214.99
3/1/00	0.00	214.99
4/1/00	0.00	214.99
5/1/00	0.00	214.99
6/1/00	0.00	214.99
7/1/00	0.00	214.99
8/1/00	0.00	214.99
9/1/00	0.00	214.99
OR YR		214.99

[illegible]

LIFT STATION	RED LOBSTER [SOUTH FRONTAGE RD]	INSTALLED	01\95
LOCATION	BONITA DRIVE		
MAKE	BARNES	6SE24034L	
SPECIFICS	230 VOLT 3\PH H\P24	FLA.	TDH 55 GPM 1000
VENDOR	J H WRIGHT		
CONTROLLER	CONTROL SYSTEMS INC		2003

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	130.49	130.49
11/1/00	0.00	130.49
12/1/00	0.00	130.49
1/1/00	0.00	130.49
2/1/00	0.00	130.49
3/1/00	0.00	130.49
4/1/00	0.00	130.49
5/1/00	0.00	130.49
6/1/00	0.00	130.49
7/1/00	0.00	130.49
8/1/00	0.00	130.49
9/1/00	0.00	130.49
	0.00	130.49
TOTAL FOR YR	0.00	0.00

XX			XXXXXXXXXX TOTAL	
PROBLEMS	#1PUMP DOWN 3\25\00 J H WRIGHT REBUILD	COST	\$1.857.00	\$1.857.00
QUA 2	CHANGED OUT A&B 100-CA-5D10 CONTACTOR	COST	\$202.56	\$405.12
QUA2	CHANGED OUY A&B 193-A2K3 OVER LOAD RELAY	COST	\$69.63	\$139.00
qua 1	changed out #2pump on 6/29/2003	installed new pump		\$4,778.10

PO 004900

LIFT STATION 22 AVE HEIGHTS
 LOCATION CAUSEYVILLE ROAD
 MAKE BARNES
 SPECIFICS 230 VOLT 3\PH FLA.
 VENDOR J H WRIGHT
 CONTROLLER CONTROLS OF HOUSTON

INSTALLED 12\94

3/1/03

MODEL 6SE36034L
 H\P 36 TDH 110 GPM 250

XX

DATE /00-01	POWER BILL	TOTAL YTD
-------------	------------	-----------

10/1/00	110.81	110.81
11/1/00	0.00	110.81
12/1/00	0.00	110.81
1/1/00	0.00	110.81
2/1/00	0.00	110.81
3/1/00	0.00	110.81
4/1/00	0.00	110.81
5/1/00	0.00	110.81
6/1/00	0.00	110.81
7/1/00	0.00	110.81
8/1/00	0.00	110.81
9/1/00	0.00	110.81
	0.00	110.81
TOTAL FOR YR	0.00	110.81

XX

XX						XXXXXXXXXX							
DATE /00-01		POWER BILL								TOTAL YTD			

[illegible]

13 FLA

<div style="text-align: center;">XXX</div>					
<div>DATE /00-01</div>	<div>POWER BILL</div>	<div>TOTAL YTD</div>	<div>XXXXXXXXXX</div>	<div></div>	<div></div>

[illegible]

LIFT STATION LA LA
 LOCATION 900 NORTH FRONTAGE ROAD
 MAKE BARNES MODEL 4SE2824L
 SPECIFICS 220 VOLT S\IP 2.8 H\IP FLA.19 TDH. 15 GPM 50
 VENDOR J H WRIGHT
 CONTROLLER CONTROLS OF HOUSTON

INSTALLED 05\19\93

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	10.56	10.56
11/1/00	0.00	10.56
12/1/00	0.00	10.56
1/1/00	0.00	10.56
2/1/00	0.00	10.56
3/1/00	0.00	10.56
4/1/00	0.00	10.56
5/1/00	0.00	10.56
6/1/00	0.00	10.56
7/1/00	0.00	10.56
8/1/00	0.00	10.56
9/1/00	0.00	10.56
	0.00	10.56
TOTAL FOR YR	0.00	10.56

XX

PROBLEMS

1/19/02	1 600 VOLT CONTACTOR	\$160.15
	1 OVERLOAD RELAY	\$60.14
	10 20 AMP 240 VOLT FUSES	\$9.30
	repair pump t industrial electricial moters/ #2 pump	\$723.00

LIFT STATION	OLD 80 #1 STATION	INSTALLED	03\05\99
LOCATION	6900 OLD 80 WEST		
MAKE	PUMPEX	MODEL	K156F-CD5270
SPECIFICS	480 VOLT 3\PH 18 H\P	TDH 35	GPM 1050
VENDOR	J H WRIGHT		
CONTROLLER	CONTROL SYSTEMS INC		

XX

DATE /00-01	POWER BILL	TOTAL YTD
-------------	------------	-----------

10/1/00	105.68	105.68
11/1/00	0.00	105.68
12/1/00	0.00	105.68
1/1/00	0.00	105.68
2/1/00	0.00	105.68
3/1/00	0.00	105.68
4/1/00	0.00	105.68
5/1/00	0.00	105.68
6/1/00	0.00	105.68
7/1/00	0.00	105.68
8/1/00	0.00	105.68
9/1/00	0.00	105.68
	0.00	105.68
TOTAL FOR YR	0.00	105.68

XX

LIFT STATION WIND MILL DRIVE INSTALLED 11\11\98
LOCATION WIND MILL DRIVE
MAKE GORMAN-RUPP MODEL JSV4E60-E17
SPECIFICS 230 VOLT 3\PH 17 \H\P FLA 54 TDH 70 GPM 200
VENDOR DELTA PROCESS EQUIPMENT
CONTROLLER CONTROL SYSTEMS INC,

XX XXXXXXXXX
DATE /00-01 POWER BILL TOTAL YTD

10/1/00	20.37	20.37
11/1/00	0.00	20.37
12/1/00	0.00	20.37
1/1/00	0.00	20.37
2/1/00	0.00	20.37
3/1/00	0.00	20.37
4/1/00	0.00	20.37
5/1/00	0.00	20.37
6/1/00	0.00	20.37
7/1/00	0.00	20.37
8/1/00	0.00	20.37
9/1/00	0.00	20.37
	0.00	20.37
TOTAL FOR YR	0.00	20.37

XX XXXXXXXXX

LIFT STATION 8TH PLACE INSTALLED 8/1/00
LOCATION WINDMILL SUB DIVISON
MAKE BARNES MODEL 4SE2824L
SPECIFICS 220 VOLT S/P 2.8 H/P 110 GPM 24 TDH
VENDOR J.H. WRIGHT
CONTROLLER CONTROL SYSTEMS INC

XX
DATE /00-01 POWER BILL TOTAL YTD

10/1/00	13.16	13.16
11/1/00	0.00	13.16
12/1/00	0.00	13.16
1/1/00	0.00	13.16
2/1/00	0.00	13.16
3/1/00	0.00	13.16
4/1/00	0.00	13.16
5/1/00	0.00	13.16
6/1/00	0.00	13.16
7/1/00	0.00	13.16
8/1/00	0.00	13.16
9/1/00	0.00	13.16
	0.00	13.16
TOTAL FOR YR	0.00	13.16

XX

BONITA LAKES BOOSTER	water	INSTALLED
LOCATION	BONITA LAKES DRIVE	
MAKE	MODEL	
SPECIFICS		
VENDOR		
CONTROLLER		

XX	XXXXXXXXXX
DATE /00-01	POWER BILL
	TOTAL YTD

10/1/00	167.61	167.61
11/1/00	0.00	167.61
12/1/00	0.00	167.61
1/1/00	0.00	167.61
2/1/00	0.00	167.61
3/1/00	0.00	167.61
4/1/00	0.00	167.61
5/1/00	0.00	167.61
6/1/00	0.00	167.61
7/1/00	0.00	167.61
8/1/00	0.00	167.61
9/1/00	0.00	167.61
	0.00	167.61
TOTAL FOR YR	0.00	167.61

XX	XXXXXXXXXX
--	------------

LIFT STATION TOMMY WEBB DRIVE
 LOCATION TOMMY WEBB DRIVE
 MAKE GOULD
 SPECIFICS 230 VOLT 3\PH FLA.10
 VENDOR GENERL PUMP
 CONTROLLER CONTROL SYSTEM INC.

INSTALLED 07\95

MODEL 3SD12F3DA
 TDH30 GPM 100

XX)XXXXXXXXXX

DATE /00-01	POWER BILL	TOTAL YTD
-------------	------------	-----------

10/1/00	21.37	21.37
11/1/00	0.00	21.37
12/1/00	0.00	21.37
1/1/00	0.00	21.37
2/1/00	0.00	21.37
3/1/00	0.00	21.37
4/1/00	0.00	21.37
5/1/00	0.00	21.37
6/1/00	0.00	21.37
7/1/00	0.00	21.37
8/1/00	0.00	21.37
9/1/00	0.00	21.37
	0.00	21.37
TOTAL FOR YR	0.00	21.37

XX)XXXXXXXXXX

PROBLEMS	REPLACE DC101 BOARD	2\13\00	COST	\$247.00
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LIFT STATION	AIR PORT	LIFT STATION	INSTALLED	1\15\96
LOCATION	HIGH WAY	11 SOUTH		
MAKE	BARNES	MODEL	4SE2894L	
SPECIFICS	230 VOLT 3 \PH	FLA 10	TDH 25	GPM 150
VENDOR	J H WRIGHT			
CONTROLLER	CONTROLS OF HOUSTON			

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	11.23	11.23
11/1/00	0.00	11.23
12/1/00	0.00	11.23
1/1/00	0.00	11.23
2/1/00	0.00	11.23
3/1/00	0.00	11.23
4/1/00	0.00	11.23
5/1/00	0.00	11.23
6/1/00	0.00	11.23
7/1/00	0.00	11.23
8/1/00	0.00	11.23
9/1/00	0.00	11.23
	0.00	11.23
TOTAL FOR YR	0.00	11.23

XX

LIFT STATION CHANDLER ROAD #1 INSTALLED 04\92
 LOCATION CHANDLER ROAD AND BOUNDS ROAD
 MAKE BARNES MODEL 4SE14341
 SPECIFICS 230 VOLT 3\PH FLA.5 TDH 19 GPM 100
 VENDOR J H WRIGHT
 CONTROLLER CONTROL SYSTEMS INC.

XX

DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	13.16	13.16
11/1/00	0.00	13.16
12/1/00	0.00	13.16
1/1/00	0.00	13.16
2/1/00	0.00	13.16
3/1/00	0.00	13.16
4/1/00	0.00	13.16
5/1/00	0.00	13.16
6/1/00	0.00	13.16
7/1/00	0.00	13.16
8/1/00	0.00	13.16
9/1/00	0.00	13.16
	0.00	13.16
TOTAL FOR YR	0.00	13.16

XX

[illegible]TOTAL FOR YR

M10-NORTH WOOD COMMON.xls

9/20/05

7.5
P

SER

#1 000501

#2

LIFT STATION NORTH EAST SOFT BALL INSTALLED 1994
LOCATION NEWELL ROAD
MAKE BARNES MODEL 4SE15034L
SPECIFICS 230 VOLT 3\PH 15 H\P FLA.33 TDH 80 GPM 100
VENDOR J H WRIGHT
CONTROLLER CONTROLS OF HOUSTON

XX XXXXXXXXX		
DATE /00-01	POWER BILL	TOTAL YTD
10/1/00	20.20	20.20
11/1/00	0.00	20.20
12/1/00	0.00	20.20
1/1/00	0.00	20.20
2/1/00	0.00	20.20
3/1/00	0.00	20.20
4/1/00	0.00	20.20
5/1/00	0.00	20.20
6/1/00	0.00	20.20
7/1/00	0.00	20.20
8/1/00	0.00	20.20
9/1/00	0.00	20.20
	0.00	20.20
TOTAL FOR YR	0.00	20.20

XX XXXXXXXXX

LIFT STATION NEWELL ROAD2
LOCATION NEWELL ROAD

INSTALLED

1987

10/2/05

PUMP NO. 1	GOULD	
MAKE		MODEL
SPECIFICS		
VENDOR	GENERAL PUMP	

PUMP NO. 2	BARNES		
MAKE	BARNES	MODEL	4SE7534L
SPECIFICS	55 TDH/250GPM	230 VOLT	3PH
VENDOR	J H WRIGHT		

CONTROLLER GENERAL PUMP

DATE / 01-02	POWER BILL	TOTAL YTD
10/1/00	0.00	0.00
11/1/00	0.00	0.00
12/1/00	0.00	0.00
1/1/00	0.00	0.00
2/1/00	0.00	0.00
3/1/00	0.00	0.00
4/1/00	0.00	0.00
5/1/00	0.00	0.00
6/1/00	0.00	0.00
7/1/00	0.00	0.00
8/1/00	0.00	0.00
9/1/00	0.00	0.00
	0.00	0.00
TOTAL FOR YR	0.00	0.00

LIFT STATION
LOCATION
MAKE
SPECIFICS
VENDOR
CONTROLLER

NEWELL ROAD #3
NEWELL ROAD
BARNES
230 VOLT 3\PH H\P 15
J H WRIGHT
CONTROLS OF HOUSTON

MODEL
TDH 75

4SE15034HL
GPM 100

INSTALLED 08\94

XX			XXXXXXXXXX
DATE /99-00	POWER BILL	TOTAL YTD	
10/1/00	64.28	64.28	
11/1/00	0.00	64.28	
12/1/00	0.00	64.28	
1/1/00	0.00	64.28	
2/1/00	0.00	64.28	
3/1/00	0.00	64.28	
4/1/00	0.00	64.28	
5/1/00	0.00	64.28	
6/1/00	0.00	64.28	
7/1/00	0.00	64.28	
8/1/00	0.00	64.28	
9/1/00	0.00	64.28	
	0.00	64.28	
TOTAL FOR YR	0.00	64.28	
XX			XXXXXXXXXX

XX	XXXXXXXXXX
DATE /00-01	POWER BILL
	TOTAL YTD

[illegible]

M04-11 AVE LIFT STATION.xls

LIFT STATION NORTH WEST SCHOOL INSTALLED 12\94
 LOCATION 35 STREET
 MAKE BARNES MODEL 4SE379L4
 SPECIFICS 230 VOLT 3 \PH 3.7 H\P FLA.12 TDH 20 GPM 100
 VENDOR J H WRIGHT
 CONTROLLER CONTROLS OF HOUSTON

XX
 DATE /00-01 POWER BILL TOTAL YTD

10/1/00	23.64	23.64
11/1/00	0.00	23.64
12/1/00	0.00	23.64
1/1/00	0.00	23.64
2/1/00	0.00	23.64
3/1/00	0.00	23.64
4/1/00	0.00	23.64
5/1/00	0.00	23.64
6/1/00	0.00	23.64
7/1/00	0.00	23.64
8/1/00	0.00	23.64
9/1/00	0.00	23.64
	0.00	23.64
TOTAL FOR YR	0.00	23.64

XXX

problem			
feb/12/2002	no#2 pump down	repair work done by j.h.wright	\$888.00

XX	XXXXXXXXXX
DATE /00-01	POWER BILL
	TOTAL YTD

[illegible]

LIFT STATION	LOCKHART TRAILER PARK ROAD	INSTALLED	11/20/03
LOCATION	LOCKHART TRAILOR PARK ROAD		
MAKE	PUMPEX	MODEL	K107F-CB-3360
SPECIFICS	6" 480 VOLTS 3PHASE 98 H/P	FLA 115	195 tdh 1200 gpm
VENDOR	J H WRIGHT		
CONTROLLER	CSI		

XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
DATE / 01-02		POWER BILL			TOTAL YTD	
10/1/00	0.00				0.00	
11/1/00	0.00				0.00	
12/1/00	0.00				0.00	
1/1/00	0.00				0.00	
2/1/00	0.00				0.00	
3/1/00	0.00				0.00	
4/1/00	0.00				0.00	
5/1/00	0.00				0.00	
6/1/00	0.00				0.00	
7/1/00	0.00				0.00	
8/1/00	0.00				0.00	
9/1/00	0.00				0.00	
	0.00				0.00	
TOTAL FOR YR	0.00				0.00	

XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
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LIFT STATION	N.A.S. AIR STATION	INSTALLED	11/20 2003
LOCATION	N.A.S. GATES		
MAKE	PUMPEX	MODEL	K107F-CB-3360
SPECIFICS	6" 480 VOLT 3 PHASE	FLA. 115	195 tdh 1200 gpm
VENDOR	J.H.WRIGHT		
CONTROLLER	C.S.I.		

XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
DATE / 01-02		POWER BILL			TOTAL YTD	
10/1/00	0.00				0.00	
11/1/00	0.00				0.00	
12/1/00	0.00				0.00	
1/1/00	0.00				0.00	
2/1/00	0.00				0.00	
3/1/00	0.00				0.00	
4/1/00	0.00				0.00	
5/1/00	0.00				0.00	
6/1/00	0.00				0.00	
7/1/00	0.00				0.00	
8/1/00	0.00				0.00	
9/1/00	0.00				0.00	
	0.00				0.00	
TOTAL FOR YR	0.00				0.00	

XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
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LIFT STATION	PIPPIN ROAD	INSTALLED	7/25/02
LOCATION	BONITA DRIVE & PIPPIN ROAD		
MAKE	PUMPEX	MODEL	K86F-VE-1190
SPECIFICS	26 H/P	3 PHASE	480 VOLT
VENDOR	J.H. WRIGHT & ASS	TDH 135	GPM300
CONTROLLER	CSI JACKSON MS.		

Appendix C
Updated Pump Station Inventory

Pump #1 Controller	Pump #1 Voltage	Pump #1 Phase	Pump #1 FLA	Pump #1 Vendor	Pump #1 Ser. #	Pump #1 Note	Pump #2 GPM	Pump #2 TDH	Pump #2 HP	Pump #2 Mete	Pump #2 Model	Pump #2 Discharge Size	Pump #2 Installation Date	Pump #2 Controller	Pump #2 Voltage	Pump #2 Phase	Pump #2 FLA	Pump #2 Vendor	Pump #2 Ser. #	Pump #2 Note
CSI	230	3	37	General Pump	61-26398	ID NO#P21G2701H-YP														
Controls of Houston	230	3	18	J.H. Wright & Assoc.			110	24	2.8	Barnes	4SE2824L		8/1/2000	CSI	220	1		J.H. Wright & Assoc.		
CSI Jackson ms	230	1	12.6	J.H. Wright & Assoc.	748476				1.5	Gould	4SD52F3DA		9/1/2004		230	3				
CSI	220	1	17	J.H. Wright & Assoc.		11/24/04 Ordered two new check valves, install portable lift station hook up													753304	
Controls of Houston	230	3		J.H. Wright & Assoc.																
Controls of Houston	230			J.H. Wright & Assoc.																
CSI	230	3	17	General Pump																
CSI	230	1		J.H. Wright & Assoc.		Rank add a phase														
Controls of Houston	220	1	10	J.H. Wright & Assoc.																
E.G. Gulf State Eng	230	3		J.H. Wright & Assoc.																
CSI	230	3		General Pump			1200	35	24	Pumpex	K106-FCC3245		1/1/1994					J.H. Wright & Assoc.		
CSI	230	3	16.6	General Pump		12/4/2000 phase monitor & 8 pin socket														
Watch Pump	230	3		Menge Pump & Power		Install Portable Lift Station hookup: 1-4" MJ														
Controls of Houston	230	3	10	J.H. Wright & Assoc.		Valve \$157, 8-4" Set ring kits \$59, 1-4" dip				Barnes	4SE5094L		3/10/2000							3/10/2000 Pump 2 replaced \$1478
CSI	230	3	5	J.H. Wright & Assoc.			150	25		Barnes	4SE2684L									
CSI	230	3		General Pump																
CSI	480	3	84.1	J.H. Wright & Assoc.																
unknown	230	3		J.H. Wright & Assoc.		12/9/2000 replaced #1 starter & thermo														
Controls of Houston	230	3	28	J.H. Wright & Assoc.		overload							12/11/2000							
CSI	480	3		J.H. Wright & Assoc.		11/24/2000 repair #1 pump, replace 6" ck	1200	75	40	Barnes	6SE48044HL		7/10/1992		480	3				11/24/2000 repair #2 pump \$1760
CSI	230	3	73	J.H. Wright & Assoc.		valve, 2x1 1/2 flange nipple, & flange assem														
CSI	480	3																		
CSI	480	3																		
FLYGT Controls of Houston	230	3		J.H. Wright & Assoc.																
CSI	480	3																		
Controls of Houston	220	1	19	J.H. Wright & Assoc.		1/19/2002 1-600V contactor \$160, 1- Overload Relay \$60, 10-20Amp fuses \$9,														
FLYGT	230	3	13	Hydra Services	O00501				7.5	Barnes	4SEHL-7.5		9/1/2004		230	3		Delta Process		
CSI	480	3	115	J.H. Wright & Assoc.																
FLYGT	230	3		J.H. Wright & Assoc.			192	40	6.5	Pumpex	K102-CA3200	4	1/1/2005		230	3		J.H. Wright & Assoc.		
Controls of Houston	230	3		J.H. Wright & Assoc.		10/4/2000 replaced #1 pump with rebuild from Hwy 39#1 Lift station \$3100, 1/22/2004 replaced #1 pump with pumpex \$5870														
CSI	230	3		Hydra Services						Myers			9/1/2004					Gulf Coast Pumps		
CSI	480	3	115	J.H. Wright & Assoc.						ABS	E330D-4MS								O00501	
Controls of Houston	230	3		J.H. Wright & Assoc.																
General Pump				General Pump			250	55		Barnes	4SE7634L		10/2/2005		230	3		J.H. Wright & Assoc.		
Controls of Houston	230	3		J.H. Wright & Assoc.																
Controls of Houston	230	3	33	J.H. Wright & Assoc.																
Controls of Houston	220	1	8	J.H. Wright & Assoc.																
Controls of Houston	230	3	12	J.H. Wright & Assoc.																
FLYGT	230	3		Gulf States Eng	T1011967				15				2/1/1995					J.H. Wright & Assoc.		
FLYGT	230	3	18	Gulf States Eng	K83 W1313-2	Rebuilt 9/20/2005														

Pump #1 Controller	Pump #1 Voltage	Pump #1 Phase	Pump #1 FLA	Pump #1 Vendor	Pump #1 Ser. #	Pump #1 Note	Pump #2 GPM	Pump #2 TDH	Pump #2 HP	Pump #2 Make	Pump #2 Model	Pump #2 Discharge Size	Pump #2 Installation Date	Pump #2 Controller	Pump #2 Voltage	Pump #2 Phase	Pump #2 FLA	Pump #2 Vendor	Pump #2 Ser. #	Pump #2 Note	
CSI	230	3		J.H. Wright & Assoc.		3/25/2000 Pump 1 rebuilt by JH Wright PO 004900 (\$1657), 2 contactors replaced A&B 100-CA-5D10 (\$405), 2 overload relays replaced A&B 193-A2K3 (\$139)							6/9/2003							6/29/2003 new pump \$4778	
CSI	230	3																			
CSI	230	3	42	J.H. Wright & Assoc.			750	30	15	Barnes	4SE15034L		1/1/2007								
CSI	480	3																			
EEE	230	3																			
CSI	220	1																			
FLYGT	230	3		Out State Eby J.H. Wright & Assoc.			100	30		Barnes	4SE1634		1/1/2000			230	3		J.H. Wright & Assoc.		
CSI	230	3	18							Barnes	4SE4534L										
CSI	230	3	10	General Pump Engineered Environmental Equip.		2/13/00 Replaced DC101 Board \$247	100	30		Barnes	3SD12F3DA			Engineered Environmental Equip.	230	3		Engineered Environmental Equip.			
CSI	230	3	54	Delta Process Equip.			100	25		A&B	EJ3004MS		1/1/2007								

Appendix D

Detailed Results of Model Simulation Runs

Appendix E

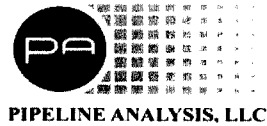
Full Scale (24" x 36") Maps of Model Simulations

Chandler Rd. #2

BLVD

Appendix F

Wastewater Collection System Rehabilitation Program



Wastewater Collection System Program Summary	Priority 1 Preliminary Cost	Priority 2 Preliminary Cost
Basin 5		
Rehabilitation		
Manhole Rehabilitation Summary	\$ 14,108	\$ 50,579
Private Sector Rehabilitation Summary	\$ 525	\$ 4,500
Public Mainline Rehabilitation Summary	\$ 14,700	\$ 76,473
Hydraulic Capacity Replacement		
Upstream MH J33-004 to Downstream Manhole J31-050	\$ -	\$ 829,455
Pump Station Replacement/Upgrades		
North Wood East Apt.	\$ -	\$ 320,400
Sub-Total	\$ 29,333	\$ 1,281,407
Basin 30		
Rehabilitation		
Manhole Rehabilitation Summary	\$ 7,550	\$ 34,147
Private Sector Rehabilitation Summary	\$ 1,400	\$ 4,400
Public Mainline Rehabilitation Summary	\$ 10,516	\$ 80,232
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ -	\$ 700
Sub-Total	\$ 19,466	\$ 118,779
Basin 17		
Rehabilitation		
Manhole Rehabilitation Summary	\$ 19,535	\$ 81,335
Private Sector Rehabilitation Summary	\$ 24,175	\$ 26,950
Public Mainline Rehabilitation Summary	\$ 35,650	\$ 1,229,568
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ -	\$ 500
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)	\$ 3,500	\$ -
Hydraulic Capacity Replacement		
Upstream MH G27-179 to Downstream Manhole G27-177	\$ 57,078	\$ -
Upstream MH G26-268 to Downstream Manhole G25-078	\$ 171,519	\$ -
Upstream MH G27-183 to Downstream Manhole G27-163	\$ 186,770	\$ -
Sub-Total	\$ 498,227	\$ 1,338,353
Basin 16		
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ 6,300	\$ 21,500
More Investigation Required	\$ -	\$ -
Sub-Total	\$ 6,300	\$ 21,500
Basin 12		
Hydraulic Capacity Replacement		
Upstream MH G25-017 to Downstream Manhole G25-015	\$ 241,043	\$ -
Sub-Total	\$ 241,043	\$ -
Basin 8		
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ 450	\$ 11,500
Hydraulic Capacity Replacement		
Upstream MH F25-036 to Downstream Manhole F25-030	\$ 354,993	\$ -
Sub-Total	\$ 354,993	\$ -
Basin 19		
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)	\$ 14,000	\$ 123,946
Sub-Total	\$ 14,000	\$ 123,946
Basin 2		
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ 1,800	\$ 6,450
Pump Station Replacement/Upgrades		
Red Lobster	\$ 424,500	\$ -
Village Fair Mall	\$ -	\$ 298,800
Days Inn	\$ -	\$ 298,800



Wastewater Collection System Program Summary		Priority 1 Preliminary Cost	Priority 2 Preliminary Cost
	Sub-Total	\$ 424,500	\$ 597,600
Basin 24			
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)		\$ 5,250	\$ 30,312
	Sub-Total	\$ 5,250	\$ 30,312
Basin 21			
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)		\$ 17,500	\$ 94,836
	Sub-Total	\$ 17,500	\$ 94,836
Basin 22			
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)		\$ 450	\$ 1,350
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)		\$ 24,241	\$ 46,150
	Sub-Total	\$ 24,691	\$ 47,500
Basin 6			
Pump Station Replacement/Upgrades			
Newell Rd #1		\$ 358,200	\$ -
Hwy 39 #1		\$ 318,400	\$ -
Newell Rd #2		\$ -	\$ 376,500
	Sub-Total	\$ 676,600	\$ 376,500
Basin 10			
Hydraulic Capacity Replacement			
Upstream MH E28-009 to Downstream Manhole LS-AT		\$ 580,138	
Upstream MH F30-175 to Downstream Manhole F30-158		\$ 197,972	
Upstream MH F31-070 to Downstream Manhole F30-185		\$ 164,935	
Pump Station Replacement/Upgrades			
65th Ave.		\$ 470,400	\$ -
North Hills St.		\$ -	\$ 239,000
MCC		\$ -	\$ 298,800
	Sub-Total	\$ 1,413,445	\$ 537,800
Basin 28			
Pump Station Replacement/Upgrades			
61st Court		\$ -	\$ 239,000
	Sub-Total	\$ -	\$ 239,000
Basin 11			
Pump Station Replacement/Upgrades			
Lower Bounds Rd		\$ -	\$ 298,800
	Sub-Total	\$ -	\$ 298,800
Basin 15			
Hydraulic Capacity Replacement			
Upstream MH G32-078 to Downstream Manhole G31-131		\$ 482,968	\$ -
	Sub-Total	\$ 482,968	\$ -
Basin 20			
Hydraulic Capacity Replacement			
Upstream MH G29-032 to Downstream Manhole G28-053		\$ 236,039	\$ -
	Sub-Total	\$ 236,039	\$ -
Basin 18			
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)		\$ 3,500	\$ -
	Sub-Total	\$ 3,500	\$ -
Basin 23			
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)		\$ 1,750	\$ -
	Sub-Total	\$ 1,750	\$ -
Basin 13			
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)		\$ -	\$ -



Wastewater Collection System Program Summary		
	Priority 1 Preliminary Cost	Priority 2 Preliminary Cost
Pump Station Replacement/Upgrades		
Pancake Field	\$ -	\$ 239,000
Hydraulic Capacity Replacement		
Upstream MH G28-152 to Downstream Manhole G26-128	\$ 1,027,799	\$ -
Sub-Total	\$ 1,027,799	\$ 239,000
Basin 27		
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ -	\$ 250
Hydraulic Capacity Replacement		
Upstream MH I28-069 to Downstream Manhole I27-080	\$ 494,755	\$ -
Sub-Total	\$ 494,755	\$ -
Basin 1		
Hydraulic Capacity Replacement		
Upstream MH G25-043 to Downstream Manhole G25-029	\$ 249,385	\$ -
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ 450	\$ 1,200
Sub-Total	\$ 249,385	\$ -
Out of Basin Limits		
Pump Station Replacement/Upgrades		
Newell Rd #3	\$ -	\$ 376,500
Sub-Total	\$ -	\$ 376,500
Subtotals		
Manhole Rehabilitation Summary	\$ 41,193	\$ 166,061
Private Sector Rehabilitation Summary	\$ 26,100	\$ 35,850
Public Mainline Rehabilitation Summary	\$ 60,866	\$ 1,386,273
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)	\$ 9,450	\$ 43,450
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)	\$ 69,741	\$ 295,244
Hydraulic Capacity Replacement	\$ 4,445,394	\$ 829,455
Pump Station Replacement/Upgrades	\$ 1,571,500	\$ 2,985,600
Total	\$ 6,224,244	\$ 5,741,933



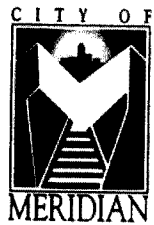
Collection System Program Rehabilitation Summary	Priority 1 Occurrences	Priority 1 Preliminary Cost	Priority 2 Occurrences	Priority 2 Preliminary Cost
Basin 5				
Manhole Rehabilitation Summary				
Rehab 1: Replace Manhole Ring & Cover	1	\$ 550	1	\$ 550
Rehab 2: Realign and Seal Manhole Ring & Cover	4	\$ 1,750	20	\$ 9,250
Rehab 3: Raise Manhole or Mainline Cleanout to Grade	17	\$ 6,100	18	\$ 5,850
Rehab 4: Structurally Repair Chimney/Cone and Coat	2	\$ 850	3	\$ 1,300
Rehab 5: Clean Manhole, Repair as Needed and Coat	2	\$ 1,758	16	\$ 19,584
Rehab 6: Reconstruct Manhole Bench & Invert	0	\$ -	2	\$ 900
Rehab 7: Install Inflow Protector Insert for Manhole, T-cone stopper for cleanout	16	\$ 1,600	29	\$ 2,895
Rehab 8: Stop I/I, Clean, Repair Pipe Seal and/or Seam and Coat Area	5	\$ 1,500	29	\$ 10,250
Rehab 9: Clean Manhole of Debris	0	\$ -	0	\$ -
Rehab10: Replace Manhole	0	\$ -	0	\$ -
Subtotal	47	\$ 14,108	118	\$ 50,579
Private Sector Rehabilitation Summary				
Disconnect Abandoned Service Line	0	\$ -	0	\$ -
Disconnect Roof Drain	0	\$ -	0	\$ -
Install Cleanout	1	\$ 450	0	\$ -
Notify Resident of Faulty Plumbing	3	\$ 75	0	\$ -
Point Repair	0	\$ -	4	\$ 1,800
Replace Missing Cleanout Cap	0	\$ -	14	\$ 700
Repair Broken Cleanout	0	\$ -	8	\$ 2,000
Subtotal	4	\$ 525	26	\$ 4,500
Public Mainline Rehabilitation Summary				
Cured In Place Pipe	0	\$ -	4	\$ 41,852
Dye Flood	0	\$ -	1	\$ 400
CCTV	0	\$ -	1	\$ 333
Plug Overflow Pipe at Manhole G26-041	0	\$ -	0	\$ -
Point Repair- Unpaved	2	\$ 3,632	0	\$ -
Point Repair	2	\$ 3,667	0	\$ -
Repair Broken Cleanout	1	\$ 250	0	\$ -
Replace Section of Mainline	1	\$ 7,150	0	\$ -
Replace 6 inch Line Segment	0	\$ -	3	\$ 32,436
Remove Roots	0	\$ -	2	\$ 1,452
Subtotal	6	\$ 14,700	11	\$ 76,473
Basin 17				
Manhole Rehabilitation Summary				
Rehab 1: Replace Manhole Ring & Cover	11	\$ 6,925	31	\$ 19,200
Rehab 2: Realign and Seal Manhole Ring & Cover	12	\$ 6,975	42	\$ 21,900
Rehab 3: Raise Manhole or Mainline Cleanout to Grade	2	\$ 1,000	4	\$ 1,850
Rehab 4: Structurally Repair Chimney/Cone and Coat	1	\$ 600	23	\$ 12,850
Rehab 5: Clean Manhole, Repair as Needed and Coat	1	\$ 1,535	13	\$ 16,276
Rehab 6: Reconstruct Manhole Bench & Invert	2	\$ 1,000	7	\$ 2,909
Rehab 7: Install Inflow Protector Insert for Manhole, T-cone stopper for cleanout	15	\$ 1,500	35	\$ 3,500
Rehab 8: Stop I/I, Clean, Repair Pipe Seal and/or Seam and Coat Area	0	\$ -	9	\$ 2,850
Rehab 9: Clean Manhole of Debris	0	\$ -	0	\$ -
Rehab10: Replace Manhole	0	\$ -	0	\$ -
Subtotal	44	\$ 19,535	164	\$ 81,335
Private Sector Rehabilitation Summary				
Disconnect Abandoned Service Line	54	\$ 21,150	\$ -	\$ -
Disconnect Roof Drain	1	\$ 200	\$ -	\$ -
Install Cleanout	0	\$ -	\$ -	\$ -
Notify Resident of Faulty Plumbing	5	\$ 125	\$ -	\$ -
Point Repair	0	\$ -	55	\$ 22,500
Replace Missing Cleanout Cap	0	\$ -	9	\$ 450
Repair Broken Cleanout	0	\$ -	7	\$ 1,500
Subtotal	60	\$ 21,475	71	\$ 24,450
Public Mainline Rehabilitation Summary				
Cured In Place Pipe	0	\$ -	60	\$ 1,177,208
Dye Flood	0	\$ -	2	\$ 800
CCTV	0	\$ -	6	\$ 4,317
Plug Overflow Pipe at Manhole G26-041	1	\$ 200	\$ -	\$ -
Point Repair- Unpaved	3	\$ 4,515	\$ -	\$ -
Point Repair	19	\$ 30,685	15	\$ 25,225
Repair Broken Cleanout	1	\$ 250	\$ -	\$ -
Replace Section of Mainline	0	\$ -	\$ -	\$ -
Replace 6 inch Line Segment	0	\$ -	1	\$ 20,502
Remove Roots	0	\$ -	1	\$ 1,516



Collection System Program Rehabilitation Summary		Priority 1	Priority 1	Priority 2	Priority 2
		Occurrences	Preliminary Cost	Occurrences	Preliminary Cost
Subtotal		24	\$ 35,650	85	\$ 1,229,568
Basin 30					
Manhole Rehabilitation Summary					
Rehab 1: Replace Manhole Ring & Cover		0	\$ -	2	\$ 1,300
Rehab 2: Realign and Seal Manhole Ring & Cover		6	\$ 3,300	24	\$ 13,550
Rehab 3: Raise Manhole or Mainline Cleanout to Grade		7	\$ 2,750	1	\$ 350
Rehab 4: Structurally Repair Chimney/Cone and Coat		0	\$ -	3	\$ 1,800
Rehab 5: Clean Manhole, Repair as Needed and Coat		0	\$ -	11	\$ 10,897
Rehab 6: Reconstruct Manhole Bench & Invert		0	\$ -	4	\$ 1,800
Rehab 7: Install Inflow Protector Insert for Manhole, T-cone stopper for cleanout		12	\$ 1,200	14	\$ 1,400
Rehab 8: Stop VI, Clean, Repair Pipe Seal and/or Seam and Coat Area		1	\$ 300	8	\$ 3,050
Rehab 9: Clean Manhole of Debris		0	\$ -	0	\$ -
Rehab10: Replace Manhole		0	\$ -	0	\$ -
Subtotal		26	\$ 7,550	67	\$ 34,147
Private Sector Rehabilitation Summary					
Disconnect Abandoned Service Line		2	\$ 3,600	0	\$ -
Disconnect Roof Drain		0	\$ -	0	\$ -
Install Cleanout		1	\$ 450	0	\$ -
Notify Resident of Faulty Plumbing		2	\$ 50	0	\$ -
Point Repair		0	\$ -	5	\$ 4,500
Replace Missing Cleanout Cap		0	\$ -	3	\$ 150
Repair Broken Cleanout		0	\$ -	8	\$ 2,250
Subtotal		5	\$ 4,100	16	\$ 6,900
Public Mainline Rehabilitation Summary					
Cured In Place Pipe		0	\$ -	5	\$ 60,762
Dye Flood		2	\$ 800	0	\$ -
CCTV		2	\$ 2,016	0	\$ -
Plug Overflow Pipe at Manhole G26-041		0	\$ -	0	\$ -
Point Repair- Unpaved		5	\$ 7,700	0	\$ -
Point Repair		0	\$ -	3	\$ 5,700
Repair Broken Cleanout		0	\$ -	0	\$ -
Replace Section of Mainline		0	\$ -	0	\$ -
Replace 6 inch Line Segment		0	\$ -	1	\$ 13,770
Remove Roots		0	\$ -	0	\$ -
Subtotal		9	\$ 10,516	9	\$ 80,232
Neel-Shaffer/ADS Rehabilitation Recommendations (1999 Report)					
Disconnect Abandoned Service Line					
Basin 8		1	\$ 450	0	\$ -
Basin 16		14	\$ 6,300	0	\$ -
Basin 1		1	\$ 450	0	\$ -
Basin 2		4	\$ 1,800	0	\$ -
Basin 22		1	\$ 450	0	\$ -
Smoke Test to Confirm Segment for Dye Flood and CCTV					
Basin 1		0	\$ -	3	\$ 750
Basin 2		0	\$ -	9	\$ 2,250
Basin 8		0	\$ -	4	\$ 1,000
Basin 16		0	\$ -	23	\$ 5,750
Basin 17		0	\$ -	2	\$ 500
Basin 22		0	\$ -	0	\$ -
Basin 27		0	\$ -	0	\$ -
Basin 30		0	\$ -	1	\$ 250
Repair Mainline Cleanout					
Basin 8		0	\$ -	1	\$ 250
Point Repair					
Basin 1		0	\$ -	1	\$ 450
Basin 2		0	\$ -	6	\$ 2,700
Basin 8		0	\$ -	20	\$ 9,000
Basin 16		0	\$ -	30	\$ 13,500
Basin 17		0	\$ -	0	\$ -
Basin 22		0	\$ -	3	\$ 1,350
Basin 27		0	\$ -	0	\$ -
Basin 30		0	\$ -	1	\$ 450
Repair Service Cleanout					
Basin 1		0	\$ -	0	\$ -
Basin 2		0	\$ -	6	\$ 1,500
Basin 8		0	\$ -	5	\$ 1,250



Collection System Program Rehabilitation Summary		Priority 1 Occurrences	Priority 1 Preliminary Cost	Priority 2 Occurrences	Priority 2 Preliminary Cost
Basin 16		0	\$ -	9	\$ 2,250
Basin 17		0	\$ -	0	\$ -
Basin 22		0	\$ -	0	\$ -
Basin 27		0	\$ -	1	\$ 250
Basin 30		0	\$ -	0	\$ -
Subtotal			\$ 9,450		\$ 43,450
Mainline Rehabilitation Summary (From Gas Company Video Tape Conversion)					
CIPP					
Basin 13		0	\$ -	0	\$ -
Basin 17		0	\$ -	0	\$ -
Basin 18		0	\$ -	0	\$ -
Basin 19		0	\$ -	2	\$ 48,242
Basin 21		0	\$ -	3	\$ 70,132
Basin 22		0	\$ -	2	\$ 46,150
Basin 23		0	\$ -	0	\$ -
Basin 24		0	\$ -	1	\$ 30,312
Remove Roots and CIPP					
Basin 13		0	\$ -	0	\$ -
Basin 17		0	\$ -	0	\$ -
Basin 18		0	\$ -	0	\$ -
Basin 19		0	\$ -	3	\$ 75,704
Basin 21		0	\$ -	1	\$ 24,704
Basin 22		0	\$ -	0	\$ -
Basin 23		0	\$ -	0	\$ -
Basin 24		0	\$ -	0	\$ -
Point Repair/Sectional Liners					
Basin 13		0	\$ -	0	\$ -
Basin 17		1	\$ 1,750	0	\$ -
Basin 18		0	\$ -	0	\$ -
Basin 19		4	\$ 10,500	0	\$ -
Basin 21		2	\$ 8,750	0	\$ -
Basin 22		6	\$ 15,750	0	\$ -
Basin 23		0	\$ -	0	\$ -
Basin 24		2	\$ 5,250	0	\$ -
Point Repair					
Basin 13		0	\$ -	0	\$ -
Basin 17		1	\$ 1,750	0	\$ -
Basin 18		2	\$ 3,500	0	\$ -
Basin 19		1	\$ 3,500	0	\$ -
Basin 21		3	\$ 8,750	0	\$ -
Basin 22		2	\$ 5,250	0	\$ -
Basin 23		1	\$ 1,750	0	\$ -
Basin 24		0	\$ -	0	\$ -
Point Repair/CCTV					
Basin 13		0	\$ -	0	\$ -
Basin 17		0	\$ -	0	\$ -
Basin 18		0	\$ -	0	\$ -
Basin 19		0	\$ -	0	\$ -
Basin 21		0	\$ -	0	\$ -
Basin 22		1	\$ 3,241	0	\$ -
Basin 23		0	\$ -	0	\$ -
Basin 24		0	\$ -	0	\$ -
Subtotal			\$ 69,741		\$ 295,244
Total			\$ 207,350		\$ 1,926,878



Collection System Program Hydraulic Capacity Summary									
Problem ID	Basin	Manhole		Diameter (in)		Length (ft)	Unit Cost \$/ft	Priority 1	Priority 2
		Upstream	Downstream	Existing	Proposed			Preliminary Cost	Preliminary Cost
EX-17-1	17	G27-179	G27-177	12	18	345.9	\$ 165	\$ 57,078	\$ -
EX-10-1	10	E28-009	LS-AT	16	21	3119	\$ 186	\$ 580,138	\$ -
EX-8-1	8	F25-036	F25-030	24	30	1431.4	\$ 248	\$ 354,993	\$ -
EX-10-2	10	F30-175	F30-158	10	18	1199.8	\$ 165	\$ 197,972	\$ -
EX-10-3	10	F31-070	F30-185	10	18	999.6	\$ 165	\$ 164,935	\$ -
EX-20-1	20	G29-032	G28-053	10	18	1430.5	\$ 165	\$ 236,039	\$ -
EX-12-1	12	G25-017	G25-015	18	24	1164.5	\$ 207	\$ 241,043	\$ -
EX-1-1	1	G25-043	G25-029	24	30	1005.6	\$ 248	\$ 249,385	\$ -
EX-17-2	17	G26-268	G25-078	27	36	593.5	\$ 289	\$ 171,519	\$ -
EX-27-1	27	I28-069	I27-080	15	24	2390.1	\$ 207	\$ 494,755	\$ -
EX-13-1	13	G28-152	G26-128	24	36	3556.4	\$ 289	\$ 1,027,799	\$ -
EX-17-3	17	G27-183	G27-163	12	21	1004.1	\$ 186	\$ 186,770	\$ -
EX-15-1	15	G32-078	G31-131	10	18	2927.1	\$ 165	\$ 482,968	\$ -
FUT-5-1	5	J33-004	J31-050	10	18	5027	\$ 165	\$ -	\$ 829,455
Total							\$	2,613,196	\$ 829,455



Collection System Program Pump Station Summary

Name of Pump Station	Total Cumulative Incoming Flows to Pump (gpm)	Pump Capacity (gpm)	Over/(Under) Capacity (gpm)	Design Flow with 20% growth (gpm)	Priority 1 Preliminary Cost	Priority 2 Preliminary Cost
Red Lobster	1277	1000	(277)	1500	\$ 424,500	\$ -
Newell Rd #1	775	275	(500)	900	\$ 358,200	\$ -
Hwy 39 #1	688	275	(413)	800	\$ 318,400	\$ -
65th Ave.	1979	1200	(779)	2400	\$ 470,400	\$ -
Newell Rd #2	458	250	(208)	500	\$ -	\$ 376,500
Newell Rd #3	392	100	(292)	500	\$ -	\$ 376,500
Lower Bounds Rd	154	150	(4)	200	\$ -	\$ 298,800
61st Court	89	75	(14)	100	\$ -	\$ 239,000
Days Inn	152	150	(2)	200	\$ -	\$ 298,800
MCC	203	100	(103)	200	\$ -	\$ 298,800
North Hills St.	117	45	(72)	100	\$ -	\$ 239,000
North Wood East Apt.	371	150	(221)	400	\$ -	\$ 320,400
Pancake Field	108	100	(8)	100	\$ -	\$ 239,000
Village Fair Mall	148	100	(48)	200	\$ -	\$ 298,800

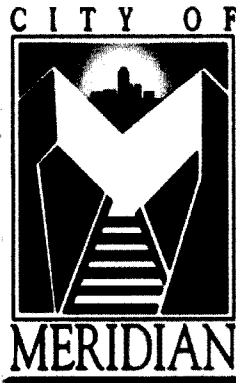
Attachment A1
Sanitary Sewer System Evaluation (Basins 5, 17 & 30) Final
Report Vol. 1

Attachment A2

**Sanitary Sewer System Evaluation (Basins 5, 17 & 30) Final
Report Vol. 2**

Wastewater Collection System Operation Review Final Report

Wastewater Collection System Operations Review Final Report



City of Meridian
Department of Public Works

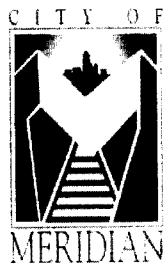


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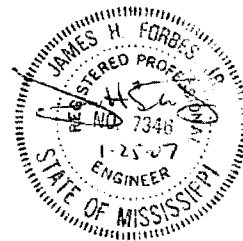
February 2007



Wastewater Collection System Operations Review Final Report



CITY OF MERIDIAN
DEPARTMENT OF PUBLIC WORKS



PREPARED BY



January 2007

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CITY OF MERIDIAN COLLECTION SYSTEM O&M EVALUATION

I. Executive Summary

A cursory review and evaluation of the wastewater collection system operations was undertaken in association with the Sewer System Evaluation Survey. The purpose of this investigation is to review current practices and, where applicable, recommend changes that will improve customer service, reduce O&M and minimize costs associated with the wastewater collection system.

Located in extreme east central Mississippi (Figure 1), the Meridian collection system consists of approximately 303 miles of gravity sewer with a replacement value of \$240 million. The soils are predominately Urban land and Sweetman-Urban land complex, 5 to 25 percent slopes. Figure 2 shows the major soil associations within Meridian. Rapid storm runoff will lessen the time that system defects are exposed or inundated with storm water. Normal annual rainfall is 56.71 inches (Figure 3).

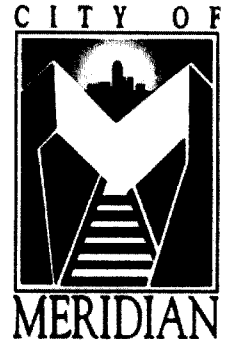


Figure 1
Location Map

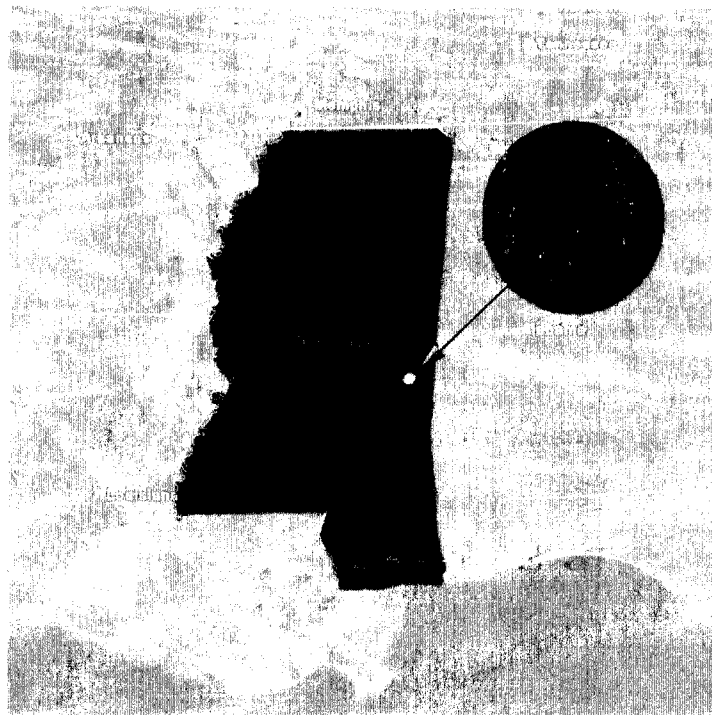
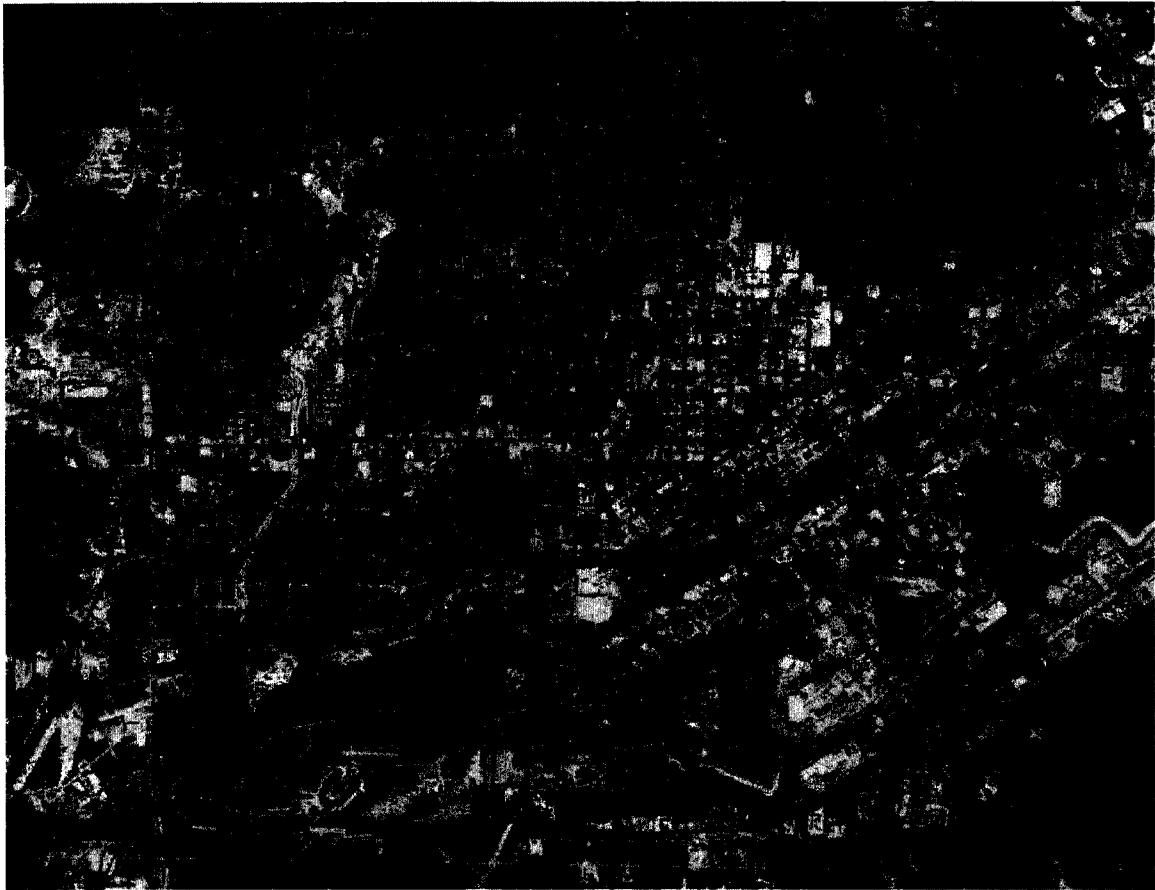


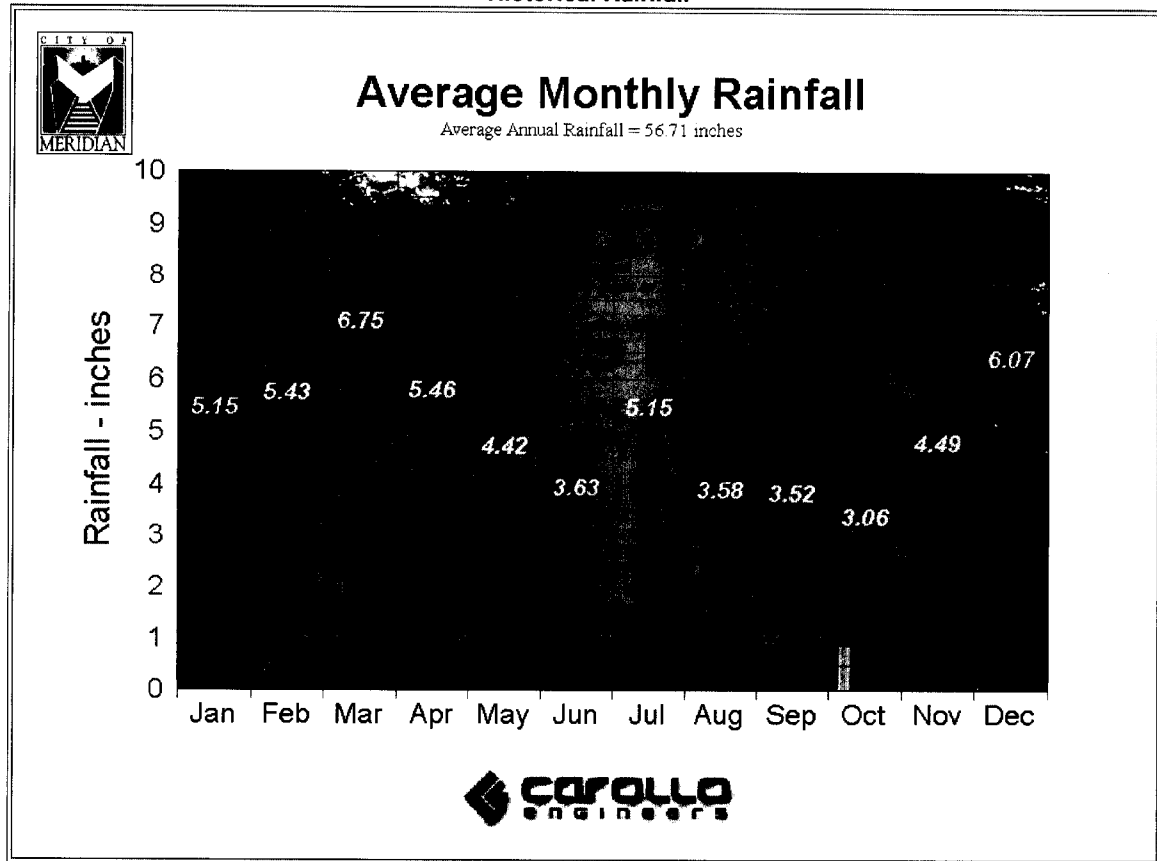
Figure 2
Soils Map



Predominate Soil Associations

- Ur Urban land
- SuE Sweatman-Urban land complex, 5-15% slopes
- SuD Sweatman-Urban land complex, 15-25% slopes
- SbB Savannah-Urban land complex, 0-5% slopes

Figure 3
Historical Rainfall



Stretched end to end the underground sewers would reach from Meridian to Atlanta. The sheer number of 6-inch vitrified clay pipe is and will continue to be very problematic for the Utility. The high percentage of small diameter vitrified clay pipe will require increased maintenance as it continues to age. Wastewater pipes have a design life of 75-100 years, and portions of the Meridian system are reaching their design life. Rehabilitation or renewal of existing infrastructure is the least cost alternative to replacement. Identifying deterioration and making timely repairs will minimize system renewal costs and extend the life of these valuable underground assets for another 75 to 100 years.

The City currently has a number of successful utility support programs that will require very little integration into the overall framework of the O&M program. The following current City programs/activities have been identified as having functions needed on an on-going basis:

- Geographic Information System (GIS) provides an inventory of installed piping, pipe size and material, and provides updated maps. Supported by the Engineering department, the GIS needs and dependency will increase over time.
- The current system of work orders is providing acceptable levels of service although it is more labor intensive than current paperless systems being implemented nationwide. As the use of wireless systems to communicate with field crews continue in popularity, the City should stay abreast of current technologies that can be implemented to improve response times, maintain electronic record keeping tied to GIS and maximize crew scheduling.
- Hydraulic modeling of the wastewater collection system is currently on-going by Carollo Engineers, Inc. Results from this effort will provide a prioritized plan to ensure future capacity. Having the infrastructure in-place to accommodate growth has been addressed by the City thru the modeling efforts.
- Record Drawings and Specifications are critical to maintaining the collection system. It is impossible to maintain a system if you do not know where it is or the materials of construction. Timely integration of new construction into the City GIS system is critical to provide reliable service. Updating the GIS sewer maps should be expedited so field crews can utilize the most up to date maps.
- Cleaning and Closed-Circuit Television (CCTV) inspections to remove blockages will be a continuing requirement, particularly with the aging clay pipes within the collection system. A procedure to internally inspect (via CCTV) those sewers with chronic stoppages should be established to identify the cause for the repetitive cleaning (ie root intrusion, protruding service collecting debris, partial collapse, etc.). Identifying and then repairing the primary cause of the blockage will reduce repetitive work orders and cost.
- Budgeting and accounting procedures for tracking of capital and O&M expenditures and costs is well organized. Current budgeting procedures and scheduled user rate reviews are keeping the utility marginally funded. Revenues from water and wastewater are used in the general fund for non-water/wastewater projects. Keeping the council apprised of current and future needs, particularly in the area of sewer rehabilitation, will be necessary for Public Works to retain necessary funding for system renewal. Collection system rehabilitation will be expensive and staff should periodically remind the council of the negative impact if repairs are deferred too long.
- Many of the regulatory issues surrounding the collection system are associated with Sanitary Sewer Overflows (SSO's). The Utility has been very proactive in anticipating regulatory issues and implementing programs to address them. By performing hydraulic modeling, evaluating capacity needs and identifying sources of extraneous infiltration/inflow, the City staff is working to reduce overflows and maintain regulatory compliance.

Overall the City of Meridian has implemented many of the programs necessary for sustained maintenance of the wastewater collection system. Table 1 presents a summary of the evaluation findings. Following is a summary of recommendations:

1. Preventive maintenance cleaning is not being undertaken due to insufficient equipment and crews. With an aging system of vitrified clay pipes, additional cleaning crews are recommended to initiate preventive maintenance cleaning. One additional cleaning truck with easement kit should be budgeted. A CCTV inspection van should be budgeted to reduce reoccurring blockages, establish the best least-cost repair strategy and provide acceptance inspection for warranty items.
2. Vacant positions within the department should be filled to implement repairs and preventive maintenance. The high number of lift stations and the aging infrastructure will require additional personnel to maintain this system of pumps, electrical systems and instrumentation. Once vacant positions have been filled, a review of labor needs throughout the department should be undertaken. Department staffing, as it relates to the collection system, is currently only marginally keeping up with demands. Additional cleaning and repair crews will be required to maintain current levels of service and provide for more proactive maintenance.
3. The Sewer Use Ordinance (SUO) should be reviewed by Public Works staff and updated as needed to address infiltration/inflow, illicit connections and grease. Grease is a major cause for system blockages. More thorough training and inspection is recommended to ensure grease traps are being maintained and periodically cleaned. The State Health Department does not currently inspect grease traps. Since the Health Department visits all major contributors of grease, they would be the logical choice to perform the grease trap inspections. Further investigation is warranted to determine the possibility of the Health Department conducting grease trap inspections. Otherwise, the City's code enforcement should physically inspect each restaurant grease trap, review cleaning manifests and schedule re-inspection if in non-compliance. To accomplish an effective FOG program, the ordinance will require updating. Code enforcement and staff should review design criteria for grease traps and consider implementing grease trap installations at apartments and other multifamily residential units.
4. As-built sewer construction drawings are not available to update the collection system maps in a timely manner. It is recommended that approved "construction drawings" be placed into the GIS mapping system at the beginning of construction in a way that distinguishes these lines as "under construction". This will allow maintenance crews to have access to locations of manholes, pipes (water lines) etc. should they receive a service call. Maintenance crews should have the best available information on asset locations. Waiting until a construction project is complete hinders repairs (particularly emergency repairs). Once the project is completed, as-built drawings can be used to update the GIS where needed. With "construction drawings" added to the GIS, warrantee during construction and after project acceptance can be tracked easily. New projects should be differentiated by color or symbols such that service requests can be forwarded to the contractor for warrantee repairs as needed. Prior to the warrantee period expiring, a final inspection can be scheduled and performed. Once the final warrantee inspection is completed and accepted, then the lines can be entered into the normal collection system total inventory.
5. Asset inventory and map update, with respect to GIS maps showing sewer lines and manholes is good; however, only about 65% of the system has been updated in GIS. To expedite the use of GIS mapping and the many efficiencies associated with its use, we recommend that the "E" size

blue-line sewer maps be used to reconcile the current GIS Grid Maps to generate “visually correct” maps. The resulting 11x17 updated grid maps will provide easy to use accurate maps for line maintenance. Having all assets numbered and included in the electronic map database will provide a mechanism for fast map updates.

6. When new sewers are being designed, the impact on downstream pipes should be reviewed. The current hydraulic modeling efforts will address current and future capacity needs for sewers 10-inch and larger. New subdivisions or developments should be reviewed to ensure adequate downstream capacity exists and/or determine the impact on the existing system. Where sewer designs are being outsourced to consultants, the scopes of work should include a review of CIP planning documents and the project impact on downstream capacity.
7. Overall the safety program is very good. Recommendations would be to annually conduct a safety drill to review response times and coordination with fire rescue and prepare a written safety manual for each employee.
8. Satellite City Agreements should be reviewed annually by Public Works staff and City Attorney to determine the practicality of updating the agreements to address any concerns (such as grease, high infiltration/inflow, toxic discharges, etc.).
9. The aging sewer infrastructure will experience increased costs to rehabilitate and extend the life of these assets. Long-term funding will be required to repair sources of infiltration/inflow, provide for CIP projects and for unpredicted failures requiring emergency repairs. If rehabilitation is deferred, then the cost to repair will increase over time as fewer trenchless (less expensive) methods of repair are applicable. The City should consider the use of annual or term contracts for rehabilitation (lining, pipe bursting, etc.) that could be budgeted. Such contracts can be bid to minimize sewer rehabilitation costs.
10. Development of a long-term Capital Improvement Plan (CIP) is recommended to provide administrators with current and future needs and estimated costs. Using the results of the hydraulic model currently being developed, along with results of the current sewer system evaluation survey, will provide a start for a long-term CIP plan.



Table 1 - Operations Review Summary
City of Meridian, Department of Public Works

Table 1 - Operations Review Summary		Rating of Adequacy or Completeness (1-10)										Status of Program		
City of Meridian, Department of Public Works														
Program Category, Elements, and Sub-elements		Description/Comments												
		1	2	3	4	5	6	7	8	9	10	Exists	Does Not Exist	Not Applicable
Collection System Policy														
Customer Service	Very good; aging system								8					
Regulatory Compliance										9				
SSO Written Policy	No written policy, procedures in-place						6							
Regulatory Reporting										9				
Regulatory Knowledge	Excellent										10			
Managing Assests										9				
GIS Mapping	Excellent, updating in progress									9				
Construction Inspection									8					
Written Warrantee Tracking	No written policy						7							
Flow Monitoring											10			
Manhole Inspection											10			
Smoke Testing											10			
CCTV	Insufficient Equipment			3										
Cleaning	Insufficient Equipment					5								
Work Management	Very good, aging tracking system									9				
Maintenance														
Corrective Maintenance	Majority of maintenance									9				
Priority System										9				
Backlog System										8				
Preventive Maintenance	Limited by labor/equipment resources							7						
Priority System								7						
Hydraulic Cleaning						5								
Cleaning Debris Removal										8				
Pretreatment Program										8				
FOG Written Program	No written policy													
Emergency Response Plan	No written Plan							7						
Engineering														
As-built Plans										8				
Asset Inventory										8				
SewerSystem Maps	Converting to GIS 11x17 Grid Maps										9			
Gravity Sewer Design											9			
Construction Inspection	No written policy							7						
Condition Assessment	Currently on-going										9			
Rehabilitation/Replacement for Lines and Manholes	Limited by budget			3										
Capacity assurance	Hydraulic model in development										9			
Technical Support Functions														
Information Management	Very good but aging system						6							
Contingency Planning	Very good but no written plan					5								
Source Control	Good pretreatment							7						
Rehabilitation Methods Understanding											9			
Legal Support											9			
Administrative Support														
Human Resources	Time required to fill positions							7						
Procurement										8				
Spare Parts										8				
Financial						5								
Capitol Improvement Plan (CIP)	Not budgeted													
Annual Rehabilitation Budget	Not budgeted													
Contingency/Emergency Budget	Not budgeted													
Rate Analysis											9			
Satellite Community Agreements											9			
Public Information	Very good											10		
Staff Training														
Written Safety Program	No written manual				4									
Scheduled Safety Meetings										9				
Schools/Certification Attendance	Limited by budget				4									

The cost to implement these recommendations is summarized in Table 2 along with a proposed implementation schedule. Note that a majority of the recommendations can be undertaken by staff at minimal cost while some will require going thru the budgeting process.

Table 2
Implementation Estimated Cost & Schedule

	Description	Schedule	Estimated Cost
1	Jet Cleaner with Easement Kit/CCTV Inspection Van	1 year	\$300,000
2	Fill Vacant Positions – Evaluate Needs	6 months	In-house
3	Sewer Use Ordinance & FOG Review/Revision	1 year	In-house
4	Construction Drawing Policy Review/ Track Warrantee	6 months	In-house
5	GIS Sewer Map Update	3 months	In-house
6	Review Downstream Impact of Development	Immediate	In-house
7	Develop Safety Manual/ Review Update Safety Policy	Immediate	In-house
8	Review Customer City Impact Annually	1 year	In-house
9	Annual/Term Contracts for Trenchless Rehabilitation	Immediate*	Budget Item
10	Develop Capital Improvement Plan (CIP)	Immediate*	In-house

* Immediately begin discussions with City Administration and Council to develop long-term financing for sewer (and water) system renewal.

II. Collection System

a. Organization

Figure 4 presents the city organizational chart. An equivalent updated organizational chart for the Public Works Department should be developed to address recent trends in regulatory reporting. The departmental organization chart should present those City staff who are responsible for implementing, managing and updating the SSO abatement programs. This includes those staff who are responsible for managing the SSO response, investigating the cause and reporting the SSO to the appropriate regulatory agencies.

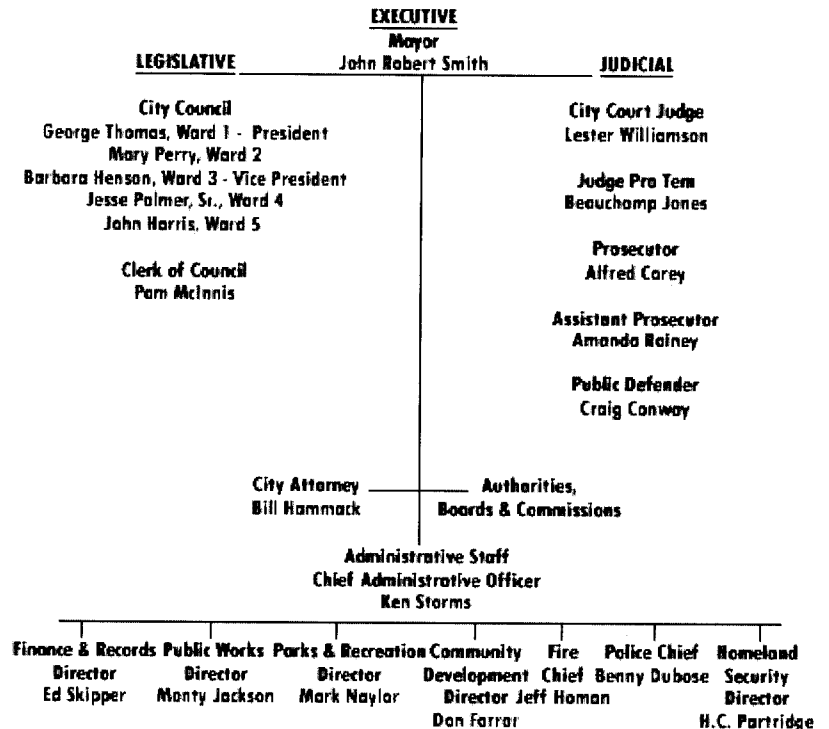


Figure 4
City Organizational Chart

Chief Administrative Officer and

Director – Establishes department policy, plans strategy, leads staff, allocates resources, delegates responsibility, authorizes outside contractors to perform services and may serve as public information officer. Prepares wastewater collection system planning documents; manages capital improvement delivery system; prepares itemized budgets; and coordinates development and implementation of various water and sewer programs.

Operations Superintendent – Manages field operations and maintenance activities, provides relevant information to management, prepares and implements contingency plans, leads emergency response, investigates and reports SSO's, and trains field crews. Provides over-site and establishes priorities and goals of sewer maintenance, inflow and sewer repair crews. Reviews performance indicators. Maintains sewer lift stations and telemetry systems.

Field Supervisors – Oversee scheduling of maintenance crews, inflow reduction crews and repair crews.

Field Crew – Perform maintenance activities, mobilize and respond to notification of stoppages and SSO's, inspect and test manholes and mainlines for infiltration/inflow and perform sewer repairs.

An aging sewer infrastructure will require increased resources to proactively maintain the collection system at least cost. Figure 5 presents a proposed organizational chart for the collection system department.

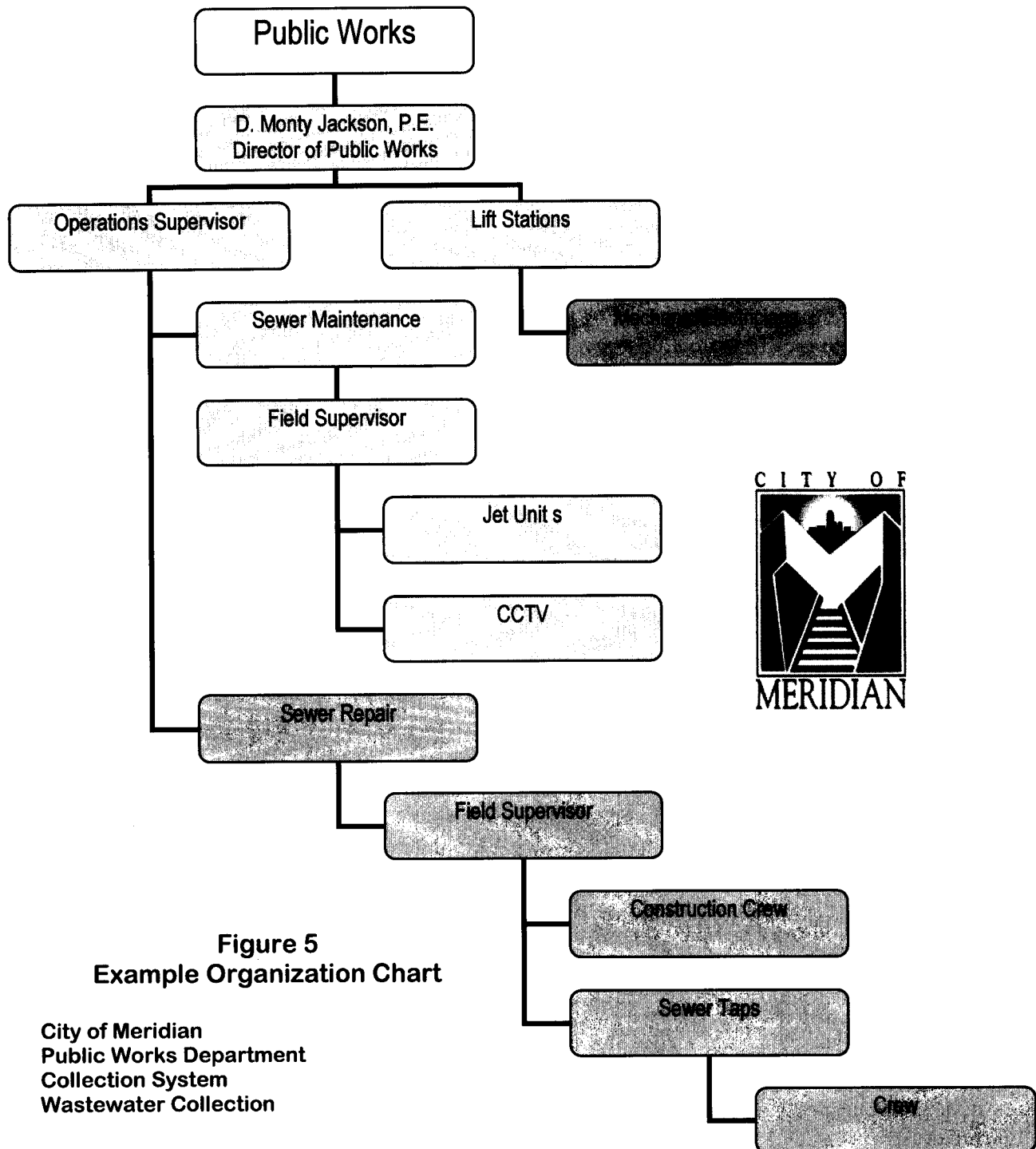


Figure 5
Example Organization Chart

City of Meridian
Public Works Department
Collection System
Wastewater Collection

b. Regulatory Compliance

Sanitary sewer overflows remain a concern for long-term compliance. New sewers are being added each year that will require maintenance and old sewers will require increasing maintenance. Because of the age, soil conditions and rainfall potential, additional crews and equipment will be required to maintain the same level of customer service. As a result, the cost of service can be expected to increase as old sewers are rehabilitated and/or replaced. Funding for collection system repair and rehabilitation will need to increase to provide reliable service. Term contracts for annual rehabilitation should be considered to provide a mechanism for long-term system renewal. With a replacement value of \$240 Million and assuming a design life of 100 years, then approximately \$2.4 Million per year would be required to fully fund replacement. Nationally, replacement is the most expensive option at approximately \$150/lf while rehabilitation is \$15/lf on a system basis. For Meridian, the estimated rehabilitation cost would approach \$24 million. This cost does not include capacity upgrades. Upon completion of the current sewer system evaluation of Basins 5, 17 and 30 a more accurate estimate of rehabilitation needs will be available for budgeting.



c. Satellite Communities

The City of Meridian provides wastewater treatment for Marion (Population 1,389), a prison (including a truck stop) and the Naval Air Station (Population 4,000). These satellite communities have permanent flow meters at each entry point into the Meridian collection system. The City has agreements with the satellite communities and rates are established for treatment by ordinance. (Appendix A presents the City Code of Ordinances-Chapter 25 Water & Sewers, Article II - Rates)

III. Maintenance

The City of Meridian has recently initiated a Sanitary Sewer Evaluation. As part of the evaluation, the City is developing a detailed plan to address SSO's and infiltration/inflow. Following are procedures used to evaluate the collection system condition:

a. Priority Areas

Flow monitoring is used to establish the areas of the collection system that contribute to excessive rainfall dependent infiltration/inflow (RDII). The City has completed a flow monitoring study in which thirty portable flow meters were placed within the system to trace excessive infiltration/inflow and prioritize additional field efforts. Results of this flow monitoring was presented in a July 2006 "Wastewater Flow Monitoring Final Report". The data presented in the report was used to prioritize areas of the collection system for subsequent inspections. Figure 6 presents the priority ranking of areas based on the severity of infiltration/inflow.

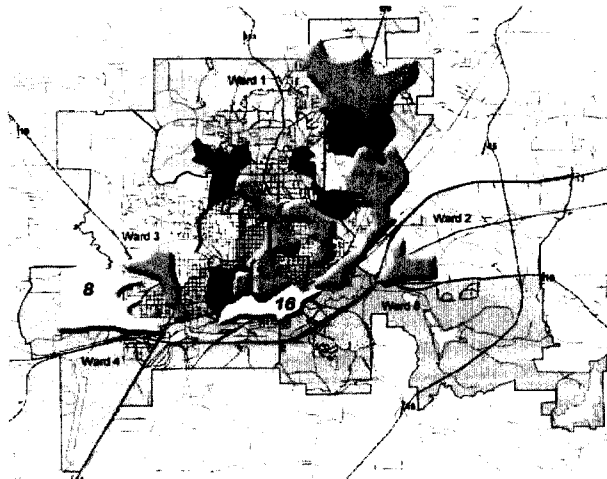
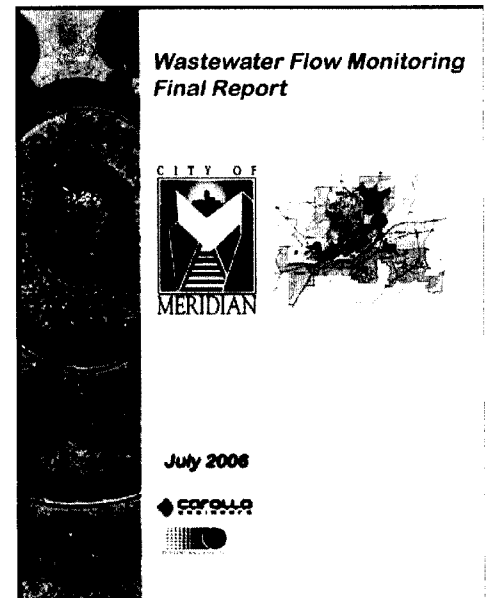


Figure 6
Priority Ranking of Basins

b. Manhole Inspection

Manhole inspections are outsourced and are being undertaken in priority basins. Inspections are performed for a complete basin and defects identified. Repairs are prioritized and scheduled. Map corrections are forwarded to the Engineering Department for updating the GIS maps.

c. Smoke Testing

High capacity smoke blowers are used by City staff on a limited basis to locate sources of odor and inflow into the collection system. Both mainline and service laterals are tested and defects documented for repair. Systematic smoke testing is outsourced in association with the priority basin evaluations.

d. CCTV

The City owns one push camera for sewer inspection. The Department has several uses for the equipment including:

1. Inspection of problem line segments
2. Locate illicit connections
3. Inspect chronic blockages to locate cause and determine repair strategy
4. Condition assessment to determine degree of roots, deterioration, groundwater infiltration, pipe joint integrity, service tap conditions, etc.

Based on the size and age of the collection system, a CCTV inspection van should be budgeted. A crawler camera with pan and tilt camera will provide an additional level of evaluation to pinpoint the cause of obstructions or chronic stoppages. The information from CCTV inspection will reduce the number of repetitive work orders at the same location by establishing the cause and repair strategy.

In addition to inspecting chronic stoppages, the CCTV equipment should be available to internally inspect new construction to ensure pipelines and service taps are constructed according to City specifications. Warranty and acceptance testing will identify any construction defects that can then be repaired by the contractor while the pipeline is still under warranty. A national program to certify CCTV operators is gaining importance. The Pipeline Assessment Certification Program (PACP) is a method to ensure sewer pipeline defects are coded and described uniformly. Using PACP certified operators ensures that outside contractors performing CCTV inspection and in-house inspections are both using the same terminology. To be compliant with the PACP program, the City will be required to have CCTV operators attend a two day training school and pass a written exam. The software used in the CCTV truck should conform to PACP requirements. All outside CCTV inspection of sewer lines for the City of Meridian should be required to provide the video, inspection logs and database in PACP certified format. Videos should be provided on DVD and/or hard drives for ease of storage and use. VHS video tapes should not be allowed unless specifically approved by the Department. All contractors performing CCTV inspection for new or existing sewer should be required to provide the data in the PACP formats.

e. Cleaning

Cleaning of sanitary sewers is an extremely important maintenance function. Internal cleaning is a daily requirement to 1) restore interrupted service due to blockages; 2)

remove root intrusion; 3) remove grease blockages; 4) remove settled debris; 5) clean prior to CCTV inspection to obtain an unobstructed view of the pipeline; 6) remove floating debris from lift station wet wells; 7) remove grit from sand traps; and 8) restore capacity and minimize SSO's. Cleaning equipment is essential in providing good customer service. The City owns two jetting trucks. A jetting truck uses a high pressure hose reel and nozzle to remove blockages and perform regular cleaning of lines. Various nozzles are available depending on the types of debris being removed. Root cutters can also be installed on the hose reel to cut roots. A jet-vac cleans the line with high pressure water but also vacuums the collected debris which is in turn hauled to a disposal site. Benefits of the jet-vac are many including removal of floating and settled debris in wet wells, sewer pipes, storm catch basins, etc. Due to the continual use of this cleaning equipment and the harsh environment it has to work in, vehicle maintenance is critical to dependable service. With over 300 miles of sanitary sewer, the need for additional jet cleaning equipment will become necessary. Initially, one additional jetting truck is recommended. In addition, an easement kit is recommended to access remote areas and where additional hose is necessary to clean pipelines. An easement kit is simply a hose reel extension of the jet truck that can be maneuvered into remote back yards or where the truck can not be driven to the manhole (particularly wooded easements).

f. System Repairs

As stated earlier in this report, the Meridian collection system has a very high percentage of clay sewer. Most of these lines are nearing their design life of 75 years; however, thru various rehabilitation methods these assets can be renewed to extend the useful life. Such renewal is several magnitudes less expensive than replacement. Currently the City staff is cleaning sewers to remove blockages associated with complaints. Some preventive maintenance cleaning is being undertaken on a limited basis where repeat calls are common.

Sewer mainline repairs are on the rise. The need for additional crews to perform repairs will increase as the existing clay pipe continues to deteriorate. This trend needs to be reversed. Pipe bursting 6-inch clay pipe to 8-inch should also be considered for areas with chronic problems. As mainline sewers are replaced, service cleanouts should be installed at the property line if not currently present.

g. Performance Indicators – The following performance indicators are recommended to track progress:

Performance Indicators:

- 1) Number of Customer Sewer Complaints
- 2) Number of Stoppages by:
 - a. Cause: roots, grease, debris, pipe failure, other
- 3) Number Dry Weather Overflows by:
 - a. Volume: <100 gallons; 100 to 999 gallons; 1000 to 9999 gallons; >10,000 gallons

- b. Cause: roots, grease, debris, pipe failure, pump station failure, capacity, other
- 4) Number Wet Weather Overflows by:
 - a. Volume: <100 gallons; 100 to 999 gallons; 1000 to 9999 gallons; >10,000 gallons
 - b. Cause: roots, grease, debris, pipe failure, pump station failure, capacity, other
- 5) Number of Cave-Ins
- 6) Number of Pump Station Failures by:
 - a. Electrical supply failure
 - b. Electrical component failure
 - c. Pump failure
 - d. Blockage
- 7) Average time to respond:
 - a. to SSO
 - b. to customer complaint
- 8) Number of Grease Trap:
 - a. Inspections
 - b. Violations
- 9) Lost-time injury rate (as a percentage of total hours worked)

IV. Engineering

Engineering provides support within the Public Works Department including streets, storm water, parks, etc. Support functions for the wastewater group include:

- Maintaining standard design criteria and construction details for public and private sewers, streets, drainage, water distribution, treatment plants, etc.
- New construction review process that includes input from wastewater utilities staff
- Construction inspection
- Update collection system maps
- Maintain inventory of system assets within GIS

a. As-Built Plans

As-built plans are maintained by engineering and are used to update the collection system maps within the GIS system. Finalized plans are updated “as time permits”. Both electronic and hardcopy atlas maps are available from engineering. The Engineering Department uses AutoCAD and ArcInfo for in-house design.

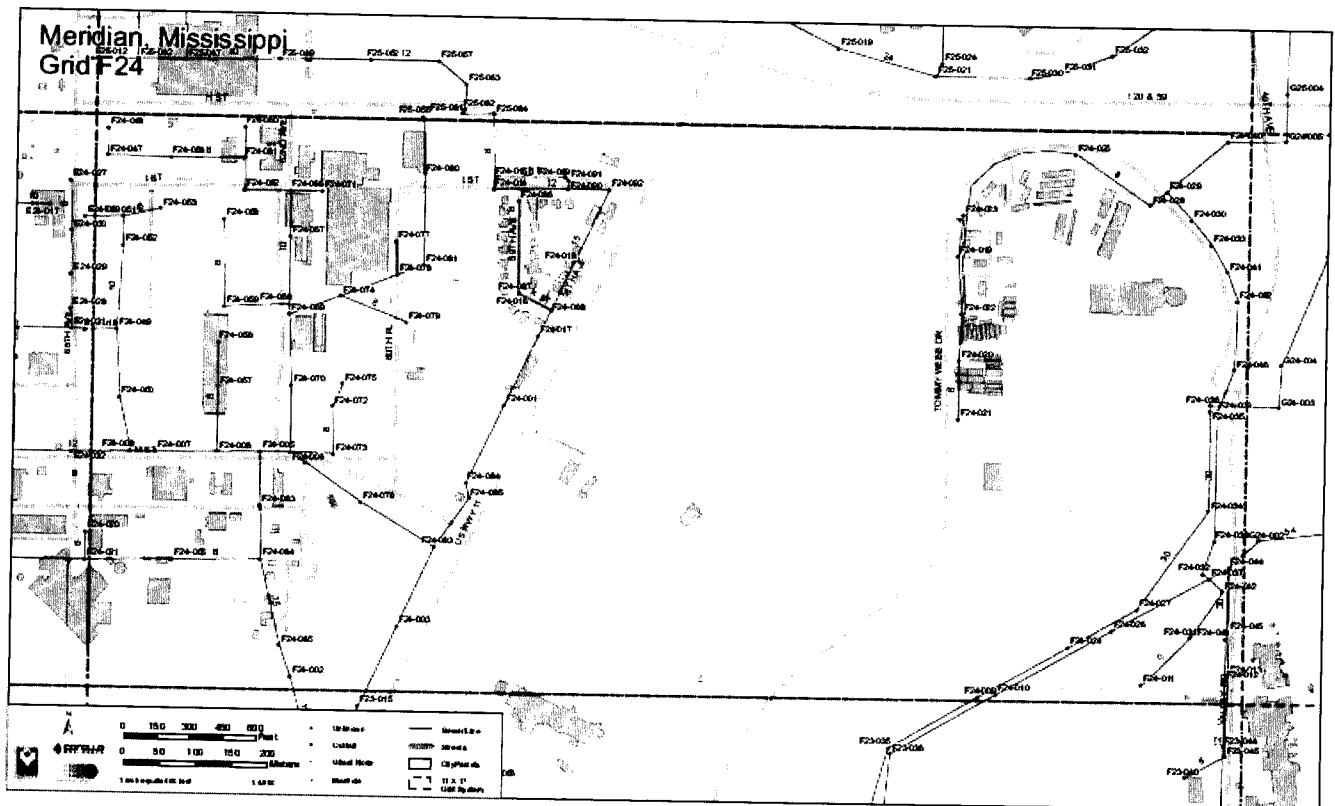
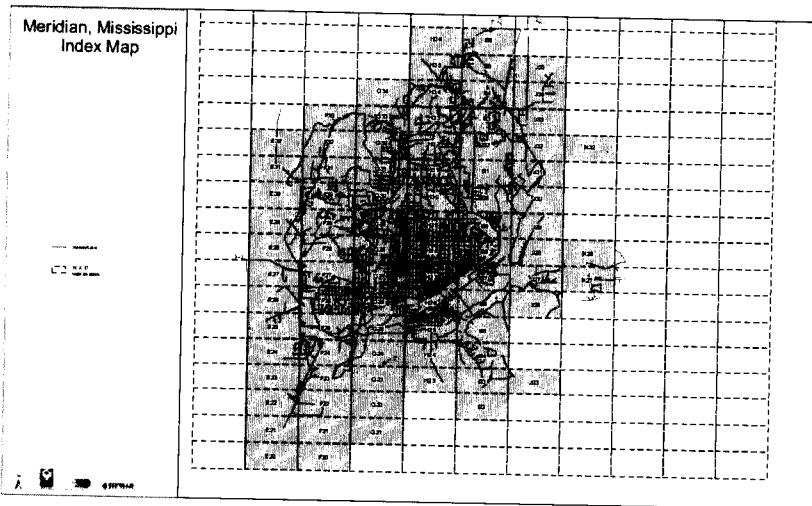
b. Sewer System Maps

Approximately 65% of the collection system has been GPS surveyed and maps updated. The updated maps are then available for the Public Works department field staff to utilize; however, line maintenance staff still rely on “E” size (36” x 44”) blue-line drawings as they are the most accurate and up to date maps of the collection system. Line maintenance personnel periodically update the “E” size drawings to show corrections and additions.

Since the process of gathering GPS coordinates for all manholes is a slow and “as time permits” process, it is recommended that a copy of the line maintenance maps be provided to the GIS technicians to update the GIS collection system maps. A separate layer can be maintained for lines shown as “visually correct, no coordinate data”. This would allow line maintenance to have access to 11x17 grid maps with manhole numbers. Updating would then be by line maintenance providing marked up (red line) 11x17 maps back to the GIS technicians for corrections and updating. Advantages include:

1. Line maintenance could be dispatched to specific manholes. Currently they are dispatched to street intersections or addresses.
2. Use of 11x17 grid maps are much more manageable than the large blue-line drawings.
3. Maintenance records will track repairs by asset number rather than street or intersection

Figure 7 presents an example of the recently developed grid maps with asset numbers assigned. Since these maps are only 65%, the need to reconcile with the blue-line drawings is recommended so crews can communicate by manhole number or asset number and have maps that can easily be stored and utilized in the field.



Note: Grid maps identify each manhole by a unique number. The number consists of the Grid Page and number. In this example, manhole F24-083 is on grid map F24 and is identified as number 083.

Public Works relies heavily on mapping for dispatching crews, performing maintenance and tracking performance. With the current and future needs, GIS technicians that can provide coordination with engineering and line maintenance will prove beneficial. The GIS technician can minimize bottlenecks in data entry, mapping updates and provide special mapping needs such as displaying chronic SSO's, maintenance calls for blockages, lines with historical CCTV video, manhole inspection history and progress, smoke testing history, rehabilitation history, etc.

Engineering requires as-built drawings upon completion of a new development project. These as-built drawings are then used to update the GIS maps. Since moderate to large projects may take over a year to complete, the Public Works Department will not have maps showing these new assets. This may create a problem for line maintenance since they may receive service calls in areas that are not mapped. It is recommended that a policy be developed that will:

- Update GIS maps when "construction design plans" are approved. These design plans should be entered as a separate layer within GIS to distinguish them from as-built drawings.
- When a construction project is accepted, then the lines should be distinguished as being "under warrantee". Any service calls to lines under warrantee should be forwarded to the contractor.
- Prior to the warrantee period expiring, a scheduled final inspection should be undertaken by Public Works inspectors to ensure the project has met all warranties. A review of service calls during the warrantee period should identify problems and possible concerns while the project is still under warrantee.

c. Gravity Sewer Design

Most gravity sewer design projects are outsourced to local consulting engineers who use the City standards for design and materials. Depending on the project, consultants may perform some hydraulic evaluation for sizing of pipelines. A hydraulic model of the collection system is currently on-going that will provide recommendations and prioritization of needs. These prioritized needs can then be put into the CIP plan for implementation. The hydraulic modeling being undertaken is utilizing the InfoWorks dynamic model and can be used by current and future consultants working on the collection system.

New construction requires a minimum 8-inch SDR 26 (Appendix A, Section 25-19 Code of Ordinances) pipe and adherence to the subdivision ordinance. Line maintenance personnel are included in the design process and a 1-year warrantee period is required. There is no written policy on warrantee reviews or approvals.

d. Construction Inspection

Public Works provides construction inspection services depending on the type of project. For example, Public Works may provide their own inspector to test a new sewer line for acceptance. Construction warranties are normally required by contract. No written program has been developed to track warranty periods and perform warrantee inspections. Depending on the project type, inspection services may be outsourced or made part of the consulting engineers design contract. Appendix B presents “Construction Guidelines” developed by the City of Meridian. The International Building Code (2000 edition) is adopted by reference.

V. Technical Support Functions

a. Information Management

The City of Meridian has a computerized work management system that tracks complaints, budgets, etc. The system is not integrated with GIS mapping, wireless intranet or any automated vehicle location system that links to the work management system. Following is an example of how the system operates:

- A citizen telephones the Public Works office with a request for service
- The dispatch operator enters the information into the work management system
- A crew assignment is entered based on department procedures and location of nearest available crew vehicles
- Field crews receive the work order via radio
- Field crew enters the completed work order and provides the paper copy back for review and closing

This system is more labor intensive than many current work order systems and the City will need to consider upgrading in the future.

b. Contingency Planning

1. Public Notification

The City has several methods to inform the public including web site, newsletters, cable access, newspaper, door hangers and billing inserts. Since the City of Meridian provides water, sewer, storm sewer, streets, and solid waste services, the City Public Awareness coordinator in the Mayors Office can provide assistance in selecting the best method(s) for notification.

2. Regulatory Notification

Regulatory compliance and notification issues associated with the collection system is the responsibility of the line maintenance superintendent. During normal work times, the operations supervisors (collection system and lift station) will provide the required forms to the superintendent for notification where required. A draft Emergency Response Plan and Policy (See Appendix C) has been prepared on SSO response and reporting. The policy document is intended to be used to train staff in responsibilities and procedures and provides written documentation on procedures to be used by staff.

3. Pump Stations

Staff are trained and equipped for various emergencies. The transport of wastewater is dependent on 55 lift stations of various sizes and configurations. Sixteen (16) lift stations have telephone dial up telemetry. Except for the very

small lift stations, all have portable lift station hook-ups. A portable generator is available and sized to operate the largest pump. Pumping station key parts including motor controls and spare pumps are kept on-hand. Standardization of equipment has been undertaken and reliability of suppliers are reviewed by lift station staff. At a minimum, each pump station is inspected weekly while problematic stations every 2 to 3 days. There are no written preventive maintenance procedures. The lift station crew is composed of two which is not adequate to provide repairs and preventive maintenance for all the lift stations. Equipment is adequate for maintenance but at least two additional staff is recommended.

4. Collection System Parts Inventory

The City of Meridian purchasing department maintains an inventory of supplies including pipe, fittings, valves, etc. Emergency repairs may be required at any time of the day or night. This requires that key parts be on-hand and readily available. Purchasing maintains a minimum reorder quantity. When inventory reaches the minimum, then supplies are reordered. The minimum reorder quantity should consider the lag times in delivery of supplies and parts to ensure they are available when needed. In addition, plastic pipe and other supplies are degraded by sunlight and purchasing needs to be made aware of storage requirements to protect the supplies.

c. Ordinance Review

1. Sewer Use Ordinance (SUO)

The sewer use ordinance (Appendix A) has standard language with regards to prohibited discharges including storm water, grease, fats, etc. Following is the general sewer use requirements within the ordinance:

"Sec. 25-115. Prohibited discharges to public sewers.

No user shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will interfere with the operation or performance of the sewage works. These general prohibitions apply to all such users of sewage works whether or not the user is subject to national categorical pretreatment standards or any other national, state, or local pretreatment standards or requirements. Users which are subject to the national categorical pretreatment standards shall contact the state department of natural resources, bureau of pollution control for further directions. A user may not contribute the following substances to the sewage works:

- (1) Any liquid, solids or gases which, by reason of their nature or quantity, are, or may be, sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any other way to the sewage works or to the operation of the sewage works. At no time shall two (2) successive readings on an explosion hazard meter, at the*

point of discharge into the system (or at any point in the system) be more than five (5) percent nor any single reading over ten (10) percent of the lower explosive limit (LEL) of the meter. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, sulfides, and any other substances which the city, the state or the U.S. Environmental Protection Agency has notified the user is a fire hazard or a hazard to the system.

- (2) Any waters or wastes containing toxic or poisonous solids, liquids, or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance, or create any hazard in the receiving waters of the sewage treatment plant, including, but not limited to, cyanides in excess of 0.05 mg/l as CN in the wastes as discharged to the public sewer.*
- (3) Any waters or wastes having a pH lower than 6.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment, and personnel of the sewage works.*
- (4) Solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities such as, but not limited to: grease, garbage with particles greater than one-half inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, wood, plastics, gas, tar, asphalt residues, residues from refining, or processing of fuel or lubricating oil, mud, or glass grinding or polishing wastes.*

(Ord. No. 3691, Art. V, § 3, 5-1-84)”

The sewer use ordinance should be reviewed and updated by staff to include specific language dealing with extraneous infiltration/inflow and FOG (fats, oils and grease). A sample SUO is presented in Appendix D for consideration. Updating the SUO to specifically address infiltration/inflow on private service lines will be necessary to fully implement an infiltration/inflow reduction program.

2. Fat, Oil and Grease (FOG) Ordinance

The FOG ordinance is recommended for staff review and updating. Sewer blockages due to grease is the primary cause for sanitary sewer overflows. No current ordinance specifically address fats, oil and grease. Appendix E presents a Draft FOG ordinance for staff review and consideration. Many cities have developed comprehensive ordinances that can be compiled for

review. Appendix F presents an example FOG Policy for staff review. Since grease is the single largest source for preventable SSO's within the collection system, the need for updating the ordinance and policy is a high priority. The State Health Department has responsibility for inspecting restaurants for health violations. However, discussions with the State Health Department determined that they do not inspect grease traps or inquire on the frequency of cleaning. Unless a grease trap is visibly overflowing or causing backups, then no inspection is undertaken during routine inspections by the Health Department.

This is a loop-hole in the current system not only for Meridian, but all cities in Mississippi. It would be most efficient for existing state health inspectors to also inspect grease traps during regular inspections. As the Mississippi DEQ and EPA all agree that grease is a major cause for SSO's. By adding grease trap inspections, the number of blockages and resulting SSO's should be reduced. Currently, the City of Meridian would be required to duplicate the inspection process of the Health Department to ensure grease traps are being maintained. We recommend the City of Meridian work with the local Health Department to develop and implement a minor change in the State check list that could have major impact and prevent a duplication of efforts.

3. Summary

Items that need to be addressed in the SUO and FOG ordinance include:

Grease Traps – The current FOG ordinance does not have design criteria to ensure grease traps are of sufficient size to properly intercept grease. Newly constructed grease traps are inspected during construction. Existing grease traps are rarely inspected by code enforcement. Each grease trap within the City should be physically inspected to ensure it is functioning properly. Cleaning manifests should be checked for compliance and disposal at approved facilities. These inspections are best performed by the State Health Department since they can immediately write citations for non-compliance and routinely inspect major sources of grease discharge (schools, restaurants, etc).

In addition to restaurants, apartments are a major source for grease. The City should review the impact of apartments and consider requiring installation of grease trap(s) at apartment and other multifamily housing. All new apartment complexes would have to comply while existing apartments could be brought into compliance over 5 years for example.

VI. Administrative/Support

a. Human Resources

Position Descriptions – The City of Meridian maintains written descriptions for every position within the Public Works Department. The Civil Service system is used to fill field crew positions within the City. Under this system, long delays between posting an opening and filling the opening are common. Currently the Public Works Department has approximately 46 positions of which 32 are filled. Certification is not required by the State for (only voluntary) wastewater collection system operators.

b. Safety Program

Safety is of paramount importance to the City of Meridian because upon it hinges the well-being of the employees and residents. Employees are held responsible for both their personal actions and safe conditions in their work areas. Any unsafe condition or procedure is reported to their immediate supervisor for corrective action.

The primary purpose of the Safety Training Program is to keep employees aware of hazards associated with the nature their job. The utility does not have a written safety policy that details the responsibilities for safety and consequences for unsafe acts. A safety committee meets regularly to review accidents. Safety equipment includes:

- Gloves
- Ventilation equipment
- Hard hats, safety glasses, boots
- First Aid kits
- Tripods
- Fire extinguishers
- Gas detectors (oxygen, hydrogen sulfide, combustible)
- Body harness
- Protective clothing
- Traffic control equipment

Monthly safety meeting are conducted and documented with sign-up sheets. Performance indicators are used by the safety coordinator to monitor the safety program. Tracking the number of injuries and near miss injuries provides a measure on the effectiveness of the program and quickly identifies when additional training is needed or possible topics for upcoming safety meetings.

Material Safety Data Sheets (MSDS) are not currently maintained for chemicals commonly used by staff. No confined space permit program is currently in effect. Calibration documentation for gas detectors used in confined space is currently not maintained. A priority for the safety

committee is the review and updating of safety policies. Areas that need to be addressed in the safety program include:

- Authority
- Confined Space Entry Permits
- Written Safety Procedures
- Traffic Management
- Trenching
- Safety Equipment Storage and Maintenance
- Performance Measures

Based on a review of the Safety Program the following recommendations are presented for consideration:

1. Implement random safety inspections for adherence to safety procedures and document inspection and summarize findings, inspect to ensure fire extinguishers, first aid kits and emergency phone numbers are readily available and properly serviced
2. Annually perform safety drill to review response times and coordinate with the fire department on methods of confined space rescue
3. Randomly check operation and calibration of gas detectors and establish if employee training has been adequate
4. Prepare a written safety policy manual and distribute to new employees (Appendix G presents a Draft Safety Manual for use in preparing documentation)
5. Inventory all chemicals used by the Department and prepare a file of material safety data sheets (MSDS). Provide training in the proper handling and storage of the various chemicals in use and update MSDS annually. Provide training in spills and health impact associated with exposure to the various chemicals.

c. Financial

Detailed budgets are prepared and tracked by staff. Current user rates are presented in Appendix A and are sufficient to fund wastewater needs as budgeted; however, budgets currently do not allocate sufficient funds for:

1. collection system rehabilitation to reduce infiltration/inflow
2. fully fund CIP projects for future growth
3. no provision or surplus in the budget to accommodate emergency repairs

Consistent funding on an annual basis for collection system renewal is a high priority in order to utilize least cost repair methods. Once the pipeline collapses the only repair method is emergency replacement which is at the highest cost. Systematic system rehabilitation will minimize emergency repairs and allow the use of lower cost internal repair strategies.

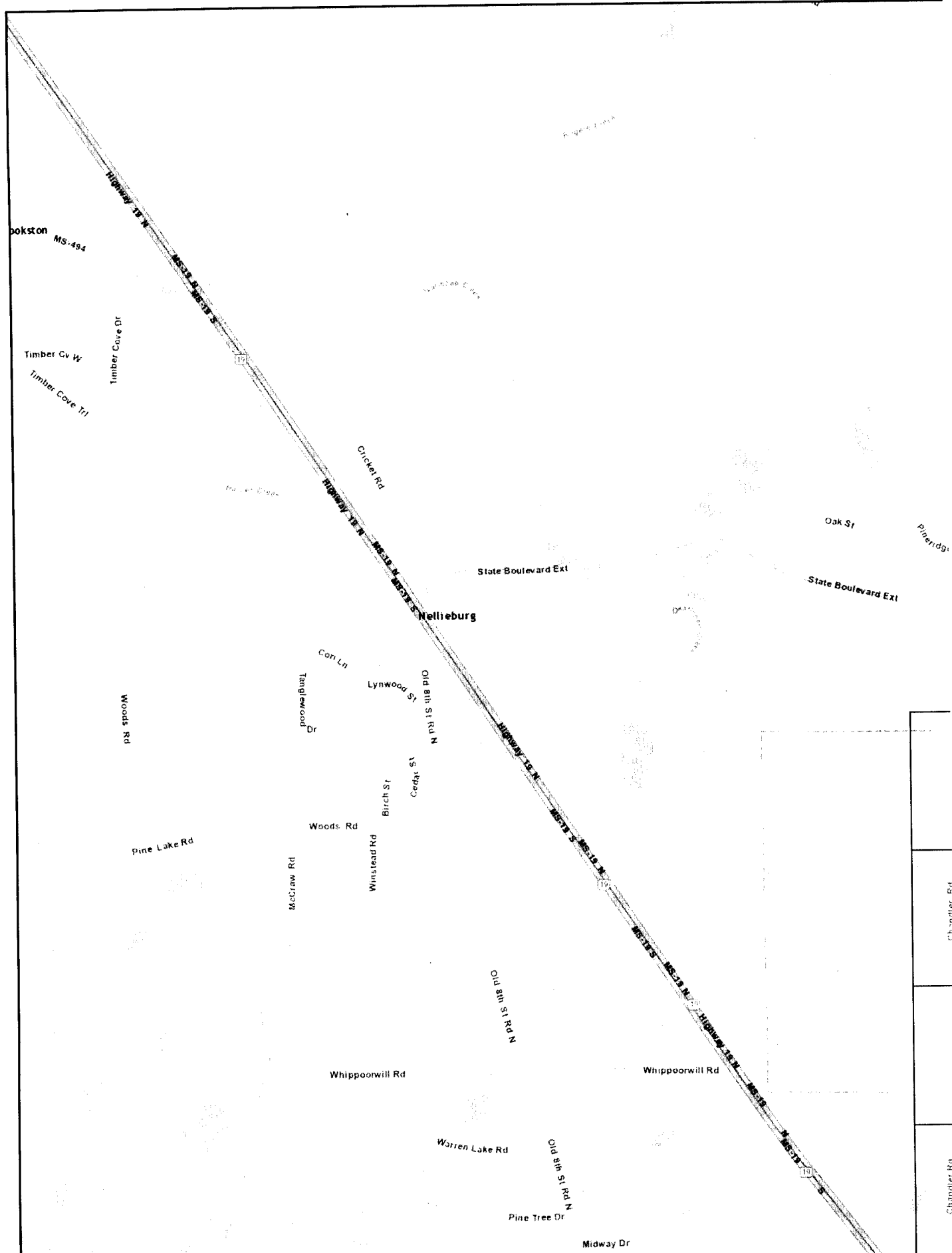
Pipelines that are at over capacity will need to be paralleled or replaced. These projects should be included on a prioritized Capital Improvement Plan that looks out 5, 10 and 20 years to anticipate future needs and costs. Such a program will also include pump station upgrades or replacement. The current hydraulic modeling effort will be instrumental in evaluating capacity needs within the collection system.

Due to the age of the collection system, unexpected failures of pipelines and aging pump stations will require emergency repairs. Emergency funds should be budgeted to provide for such contingencies.

Rates are reviewed and adjustments presented to the City council for approval. Since water and wastewater revenues are used for non-water/wastewater expenses, the Public Works Department must work closely with the City council and administrators to ensure adequate funding is allocated for the aging collection system. The financial needs of the water and sewer system will continue to increase and the governing body must provide the resources for Public Works to maintain and expand the underground infrastructure.

April 3, 2015 City of Meridian Response to Request for Information
Attachment C: Electronic Copy of Wastewater Collection System Maps
Based on Currently Available GIS Data

See enclosed disk



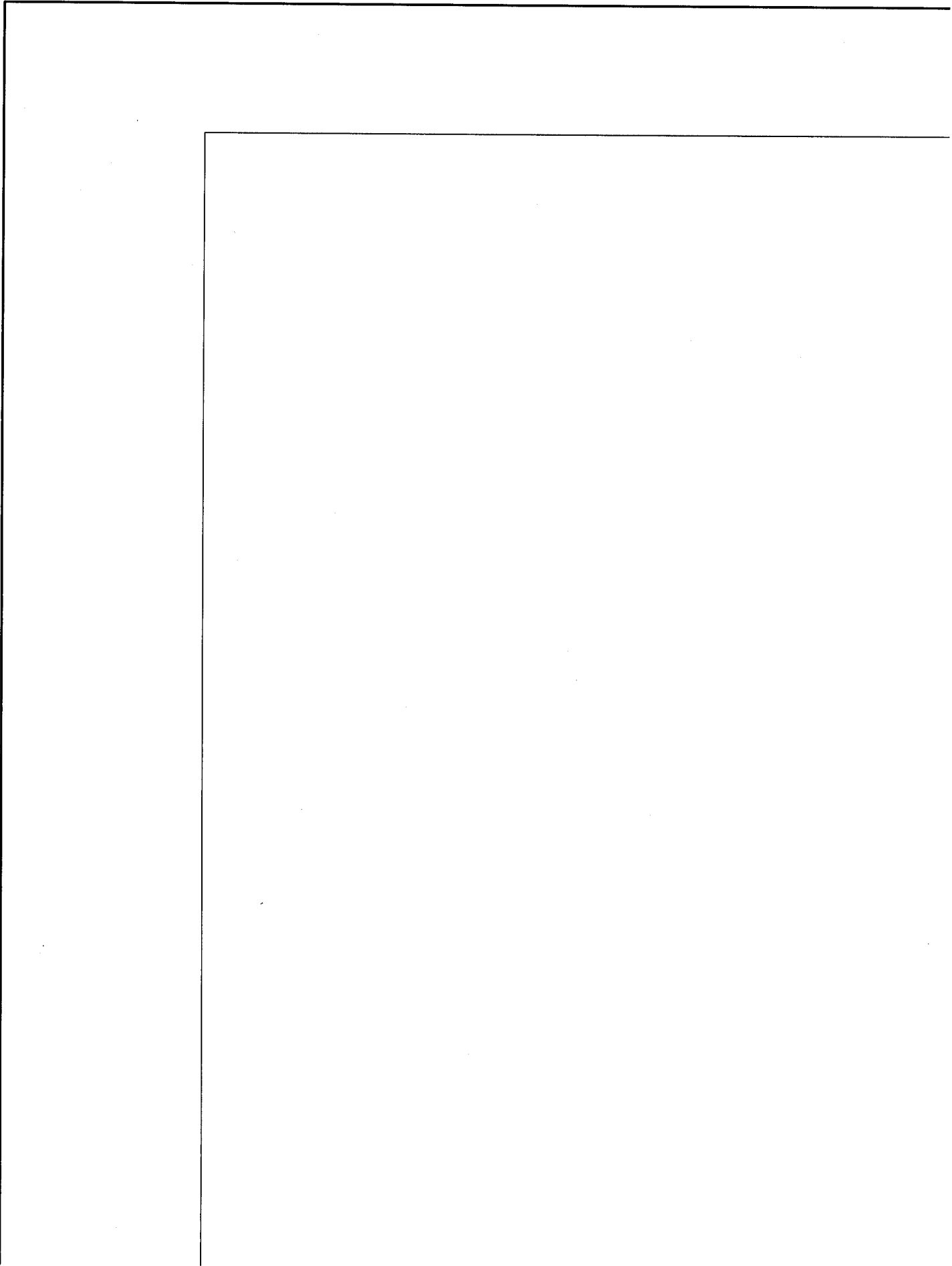
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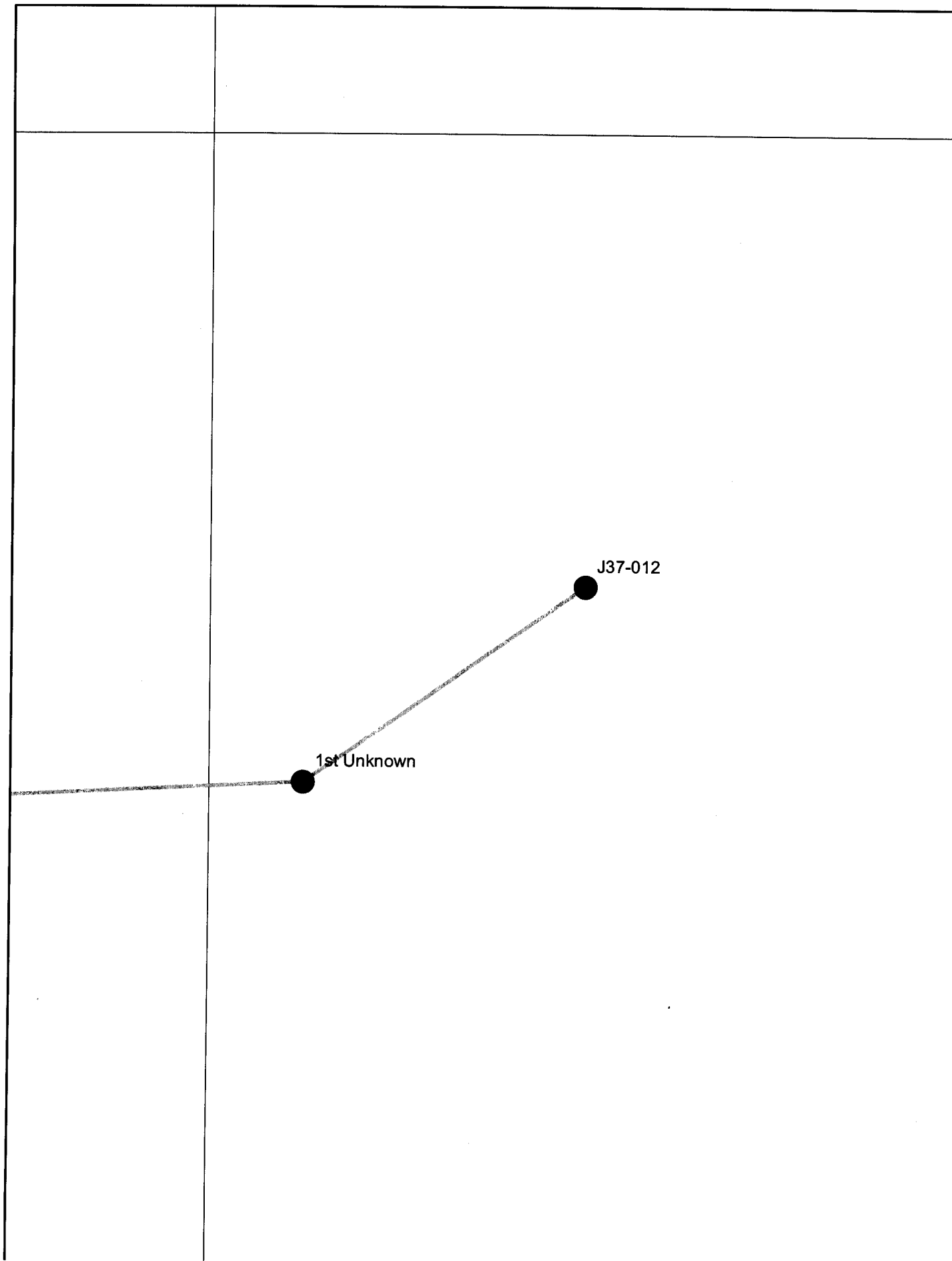
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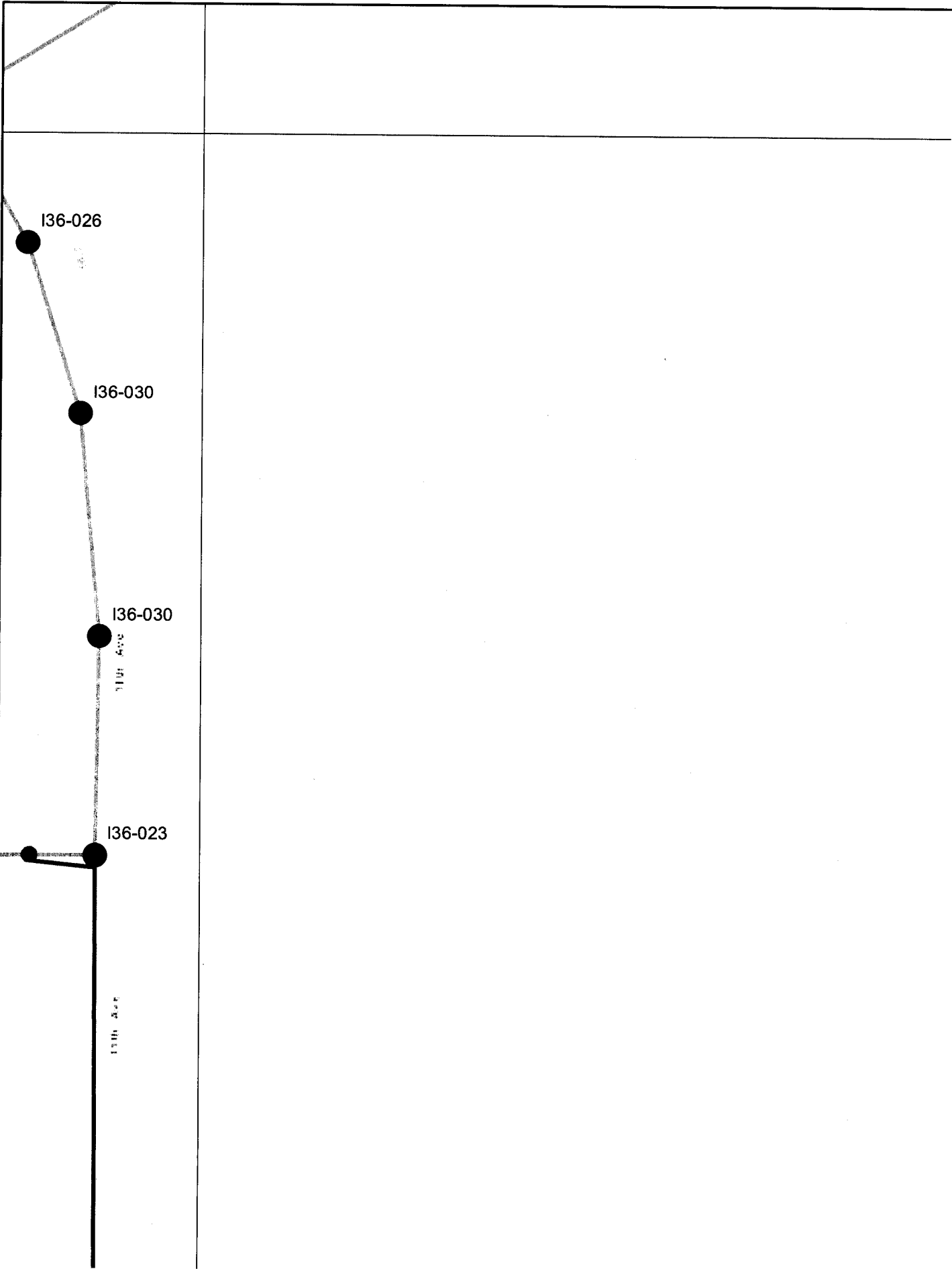
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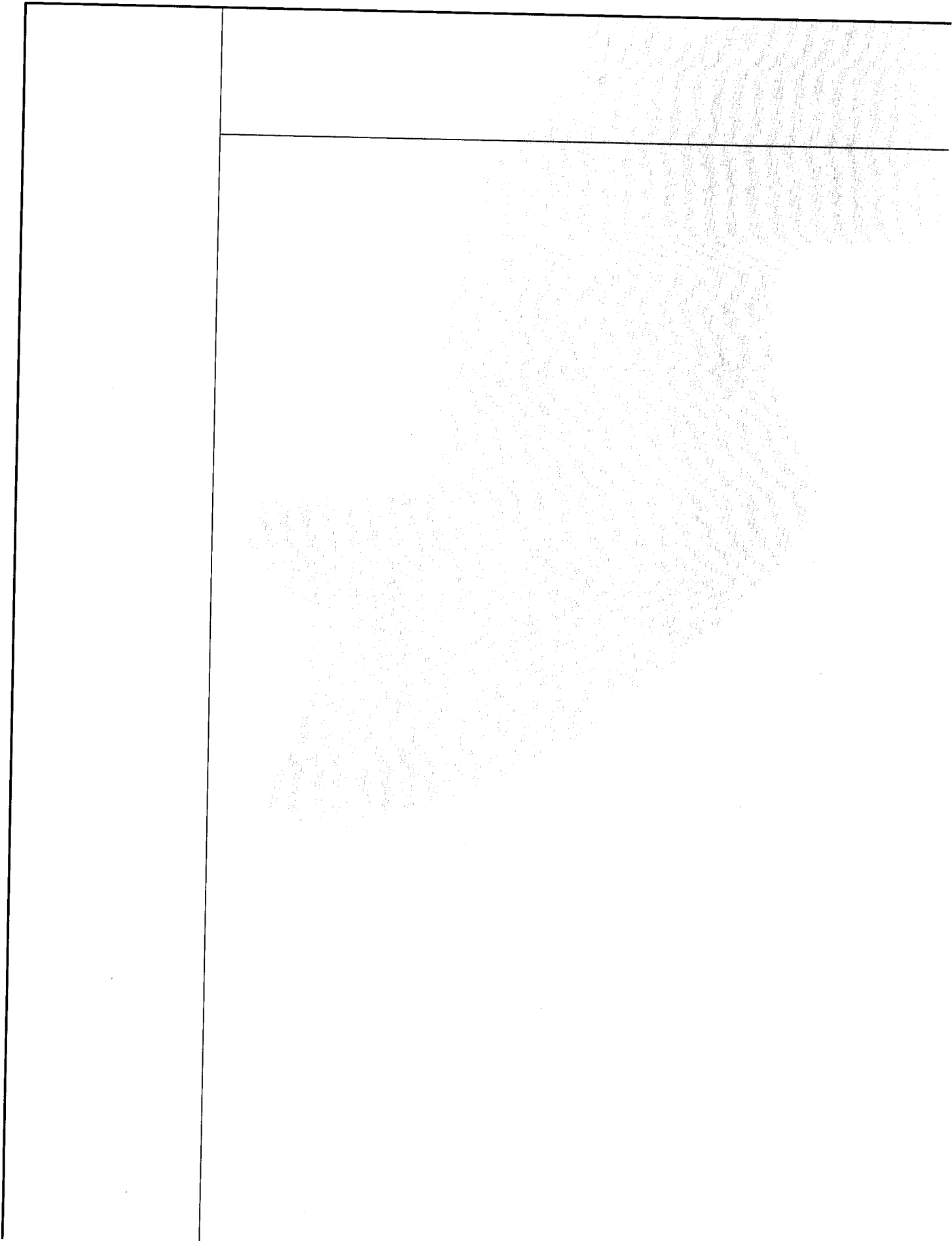
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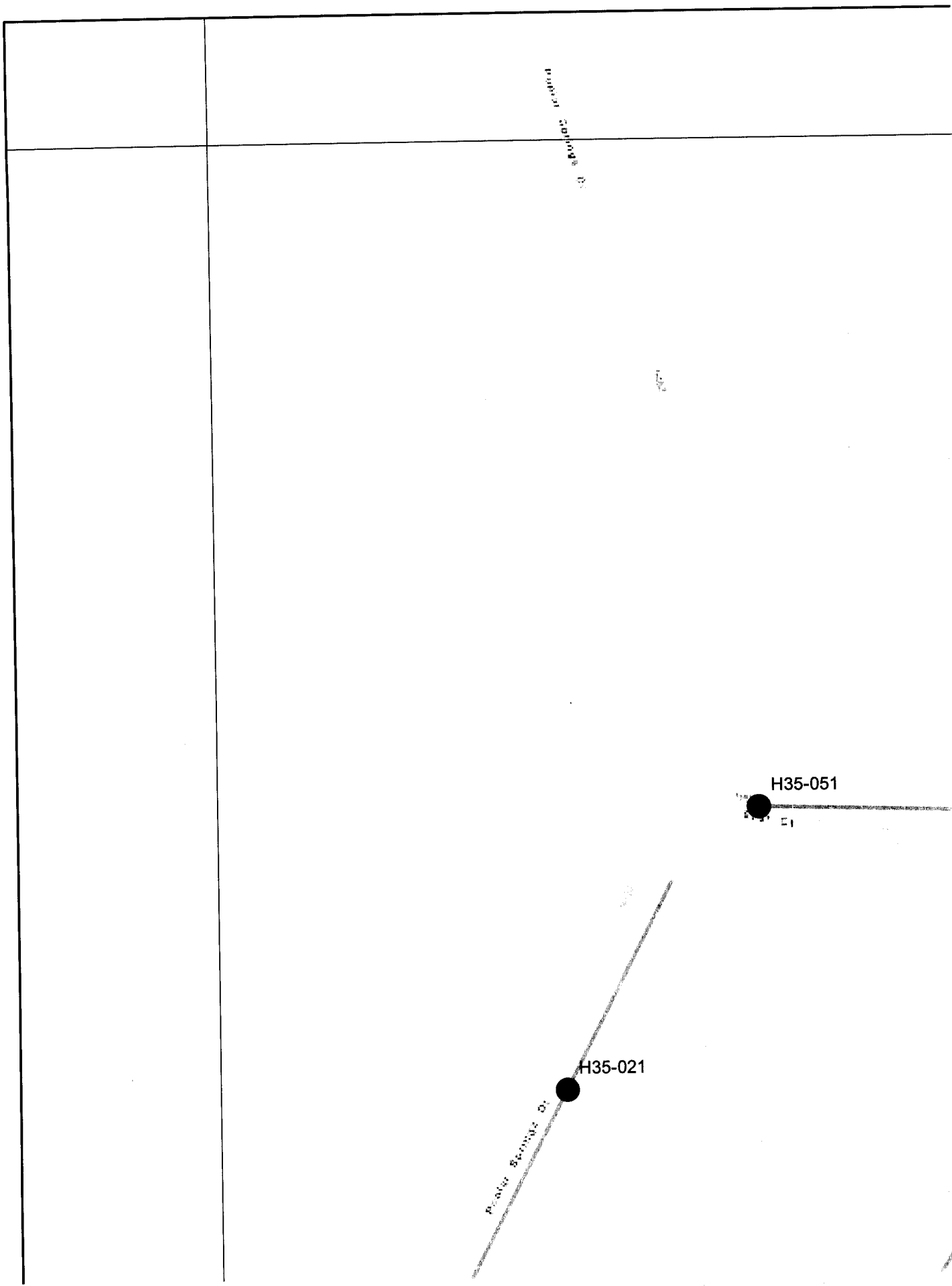
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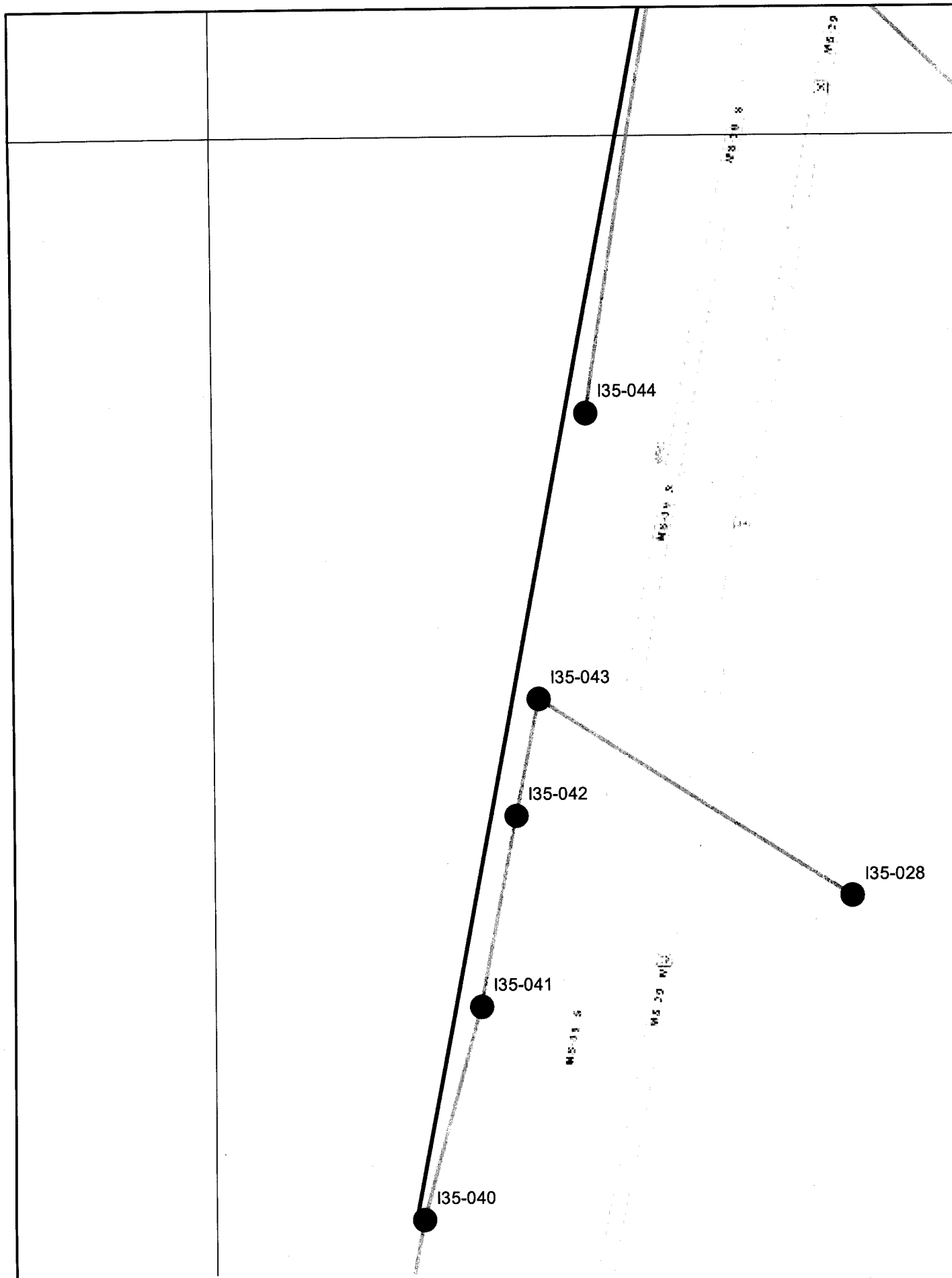
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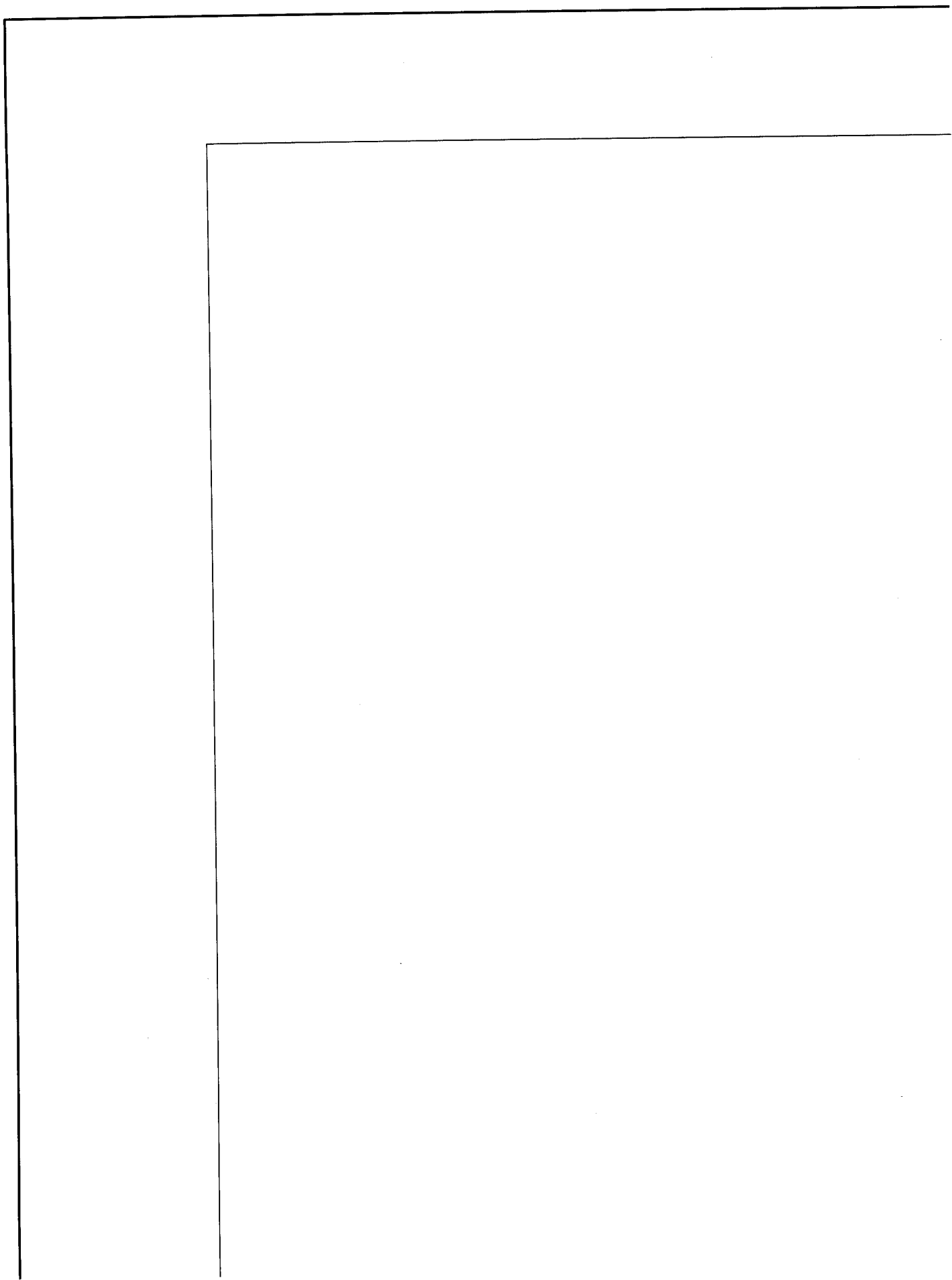
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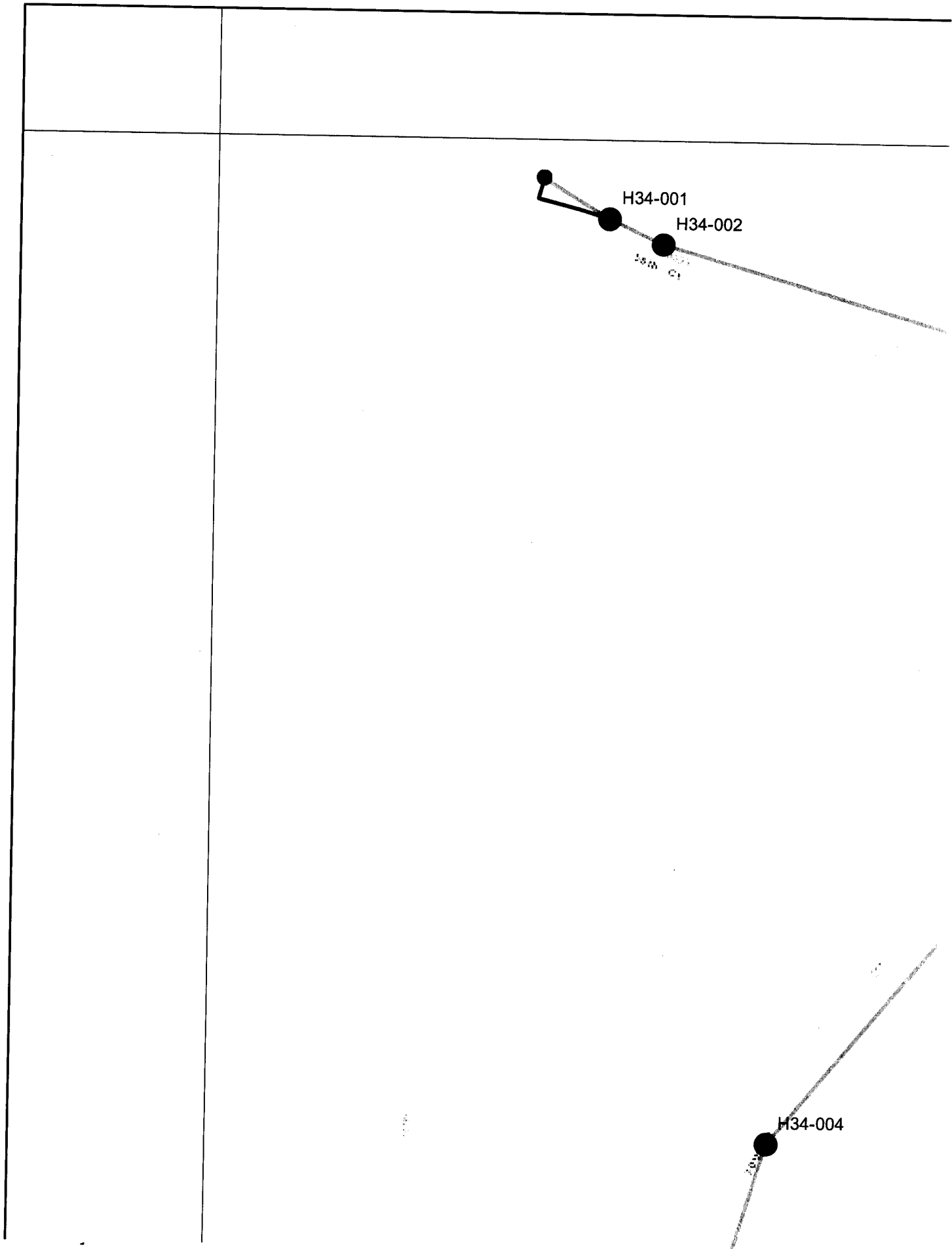
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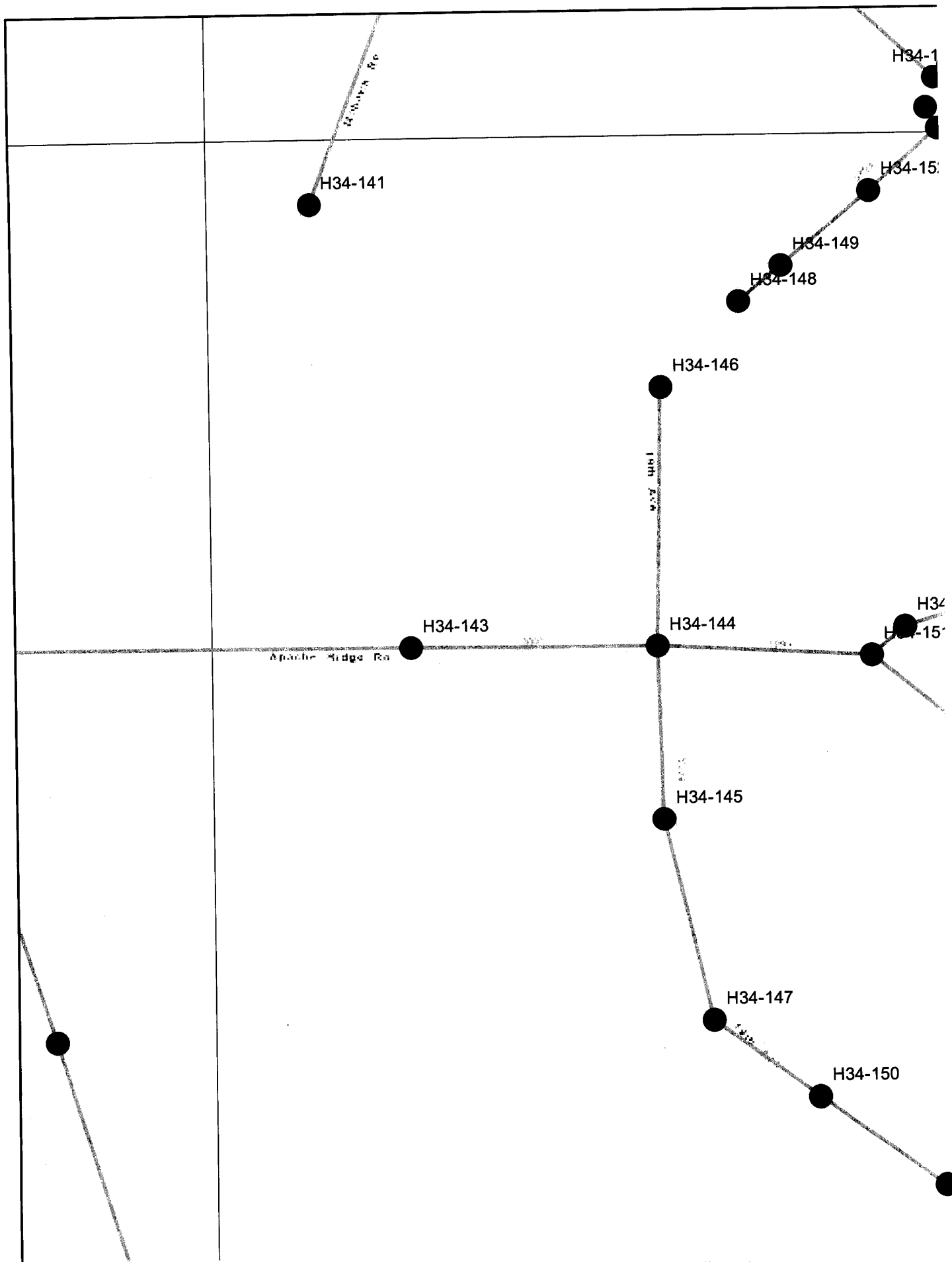
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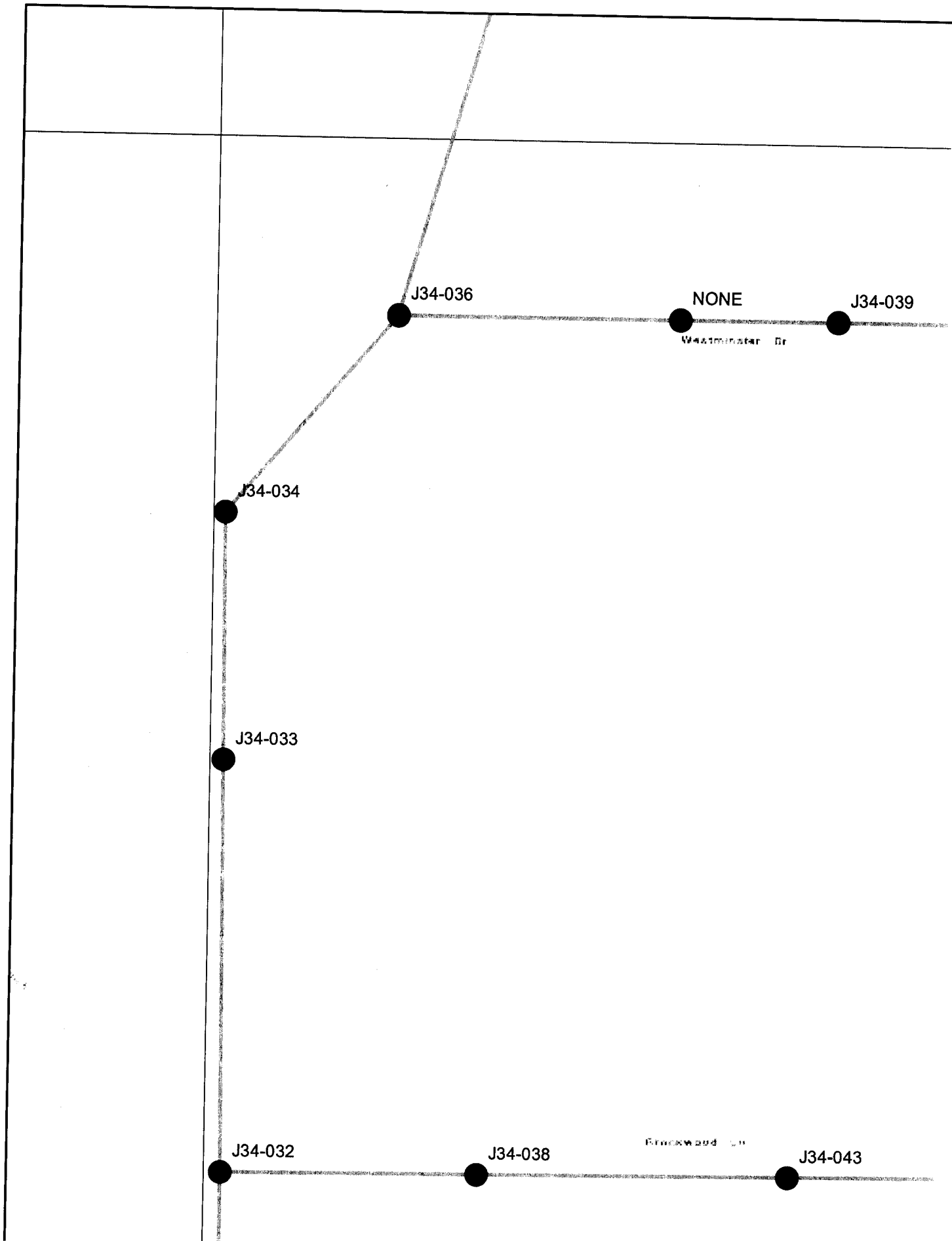


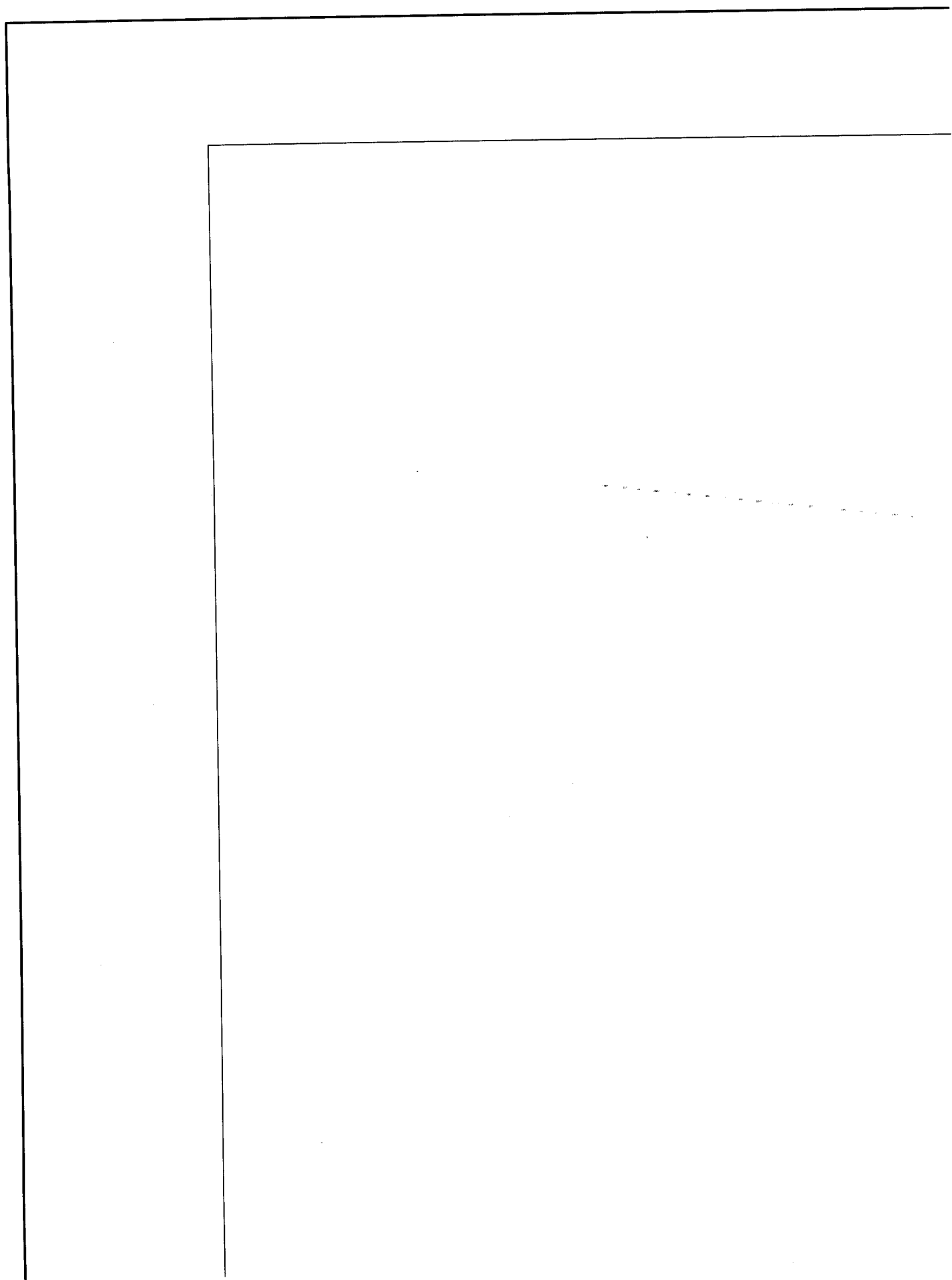
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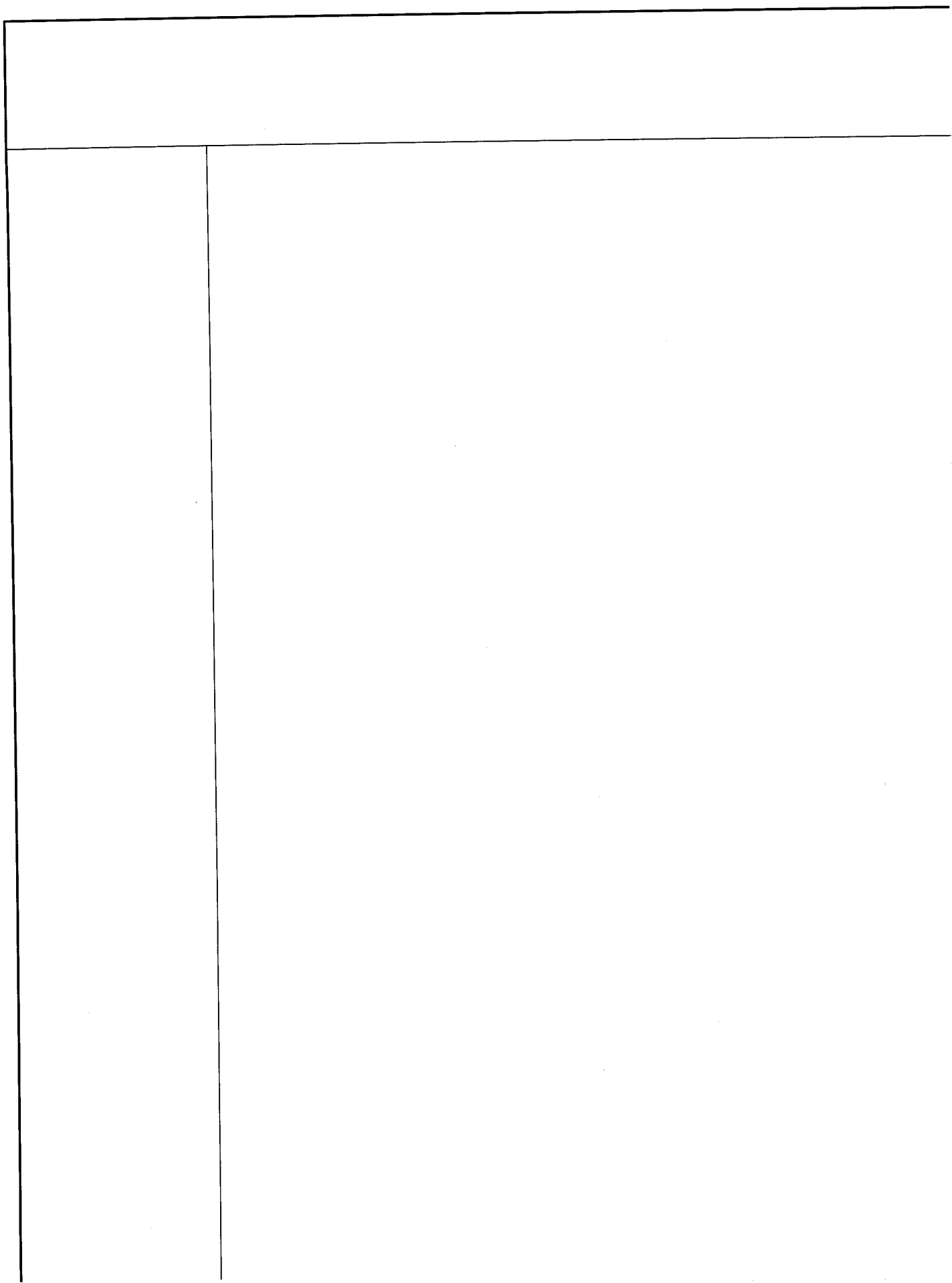
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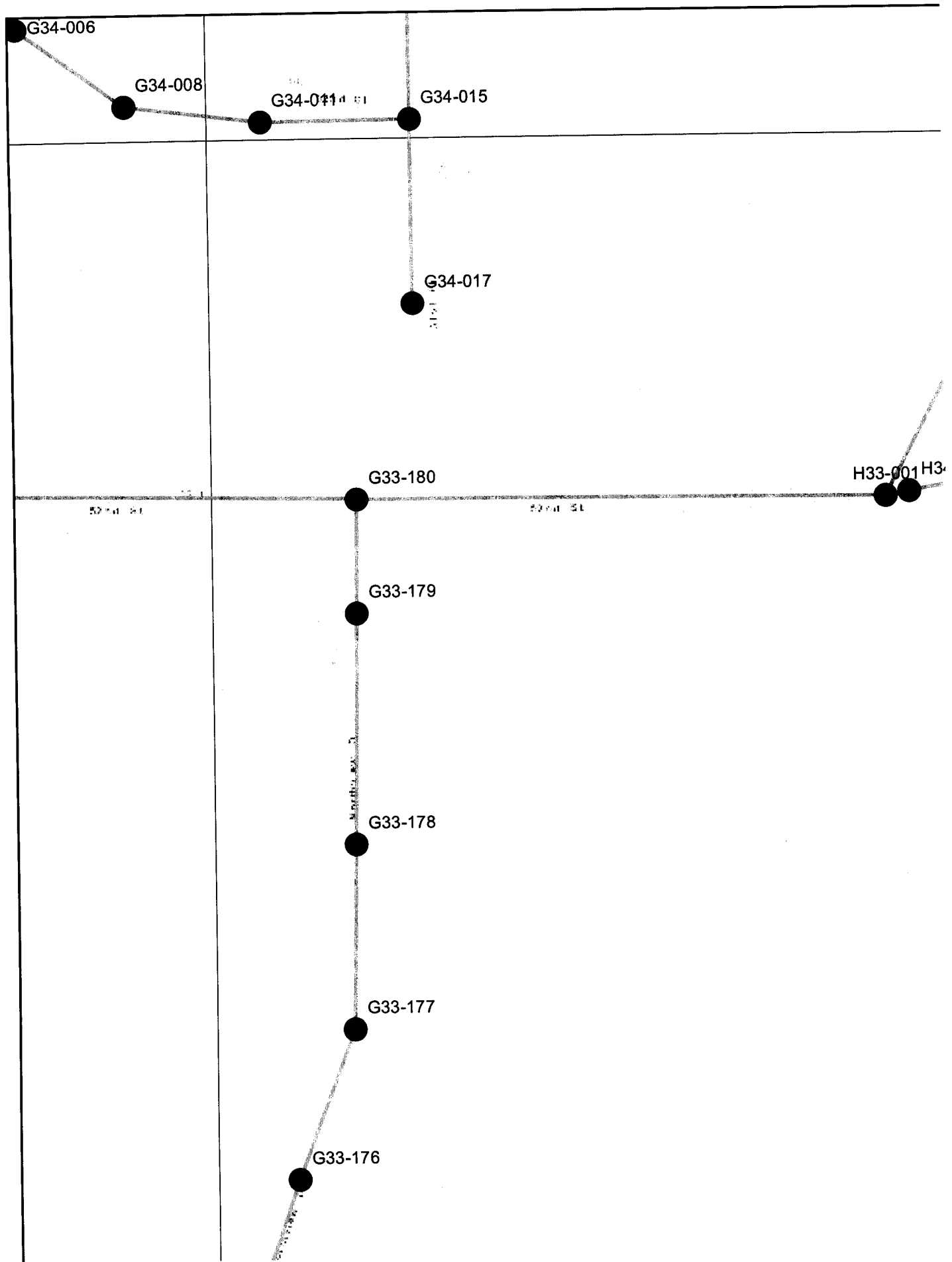




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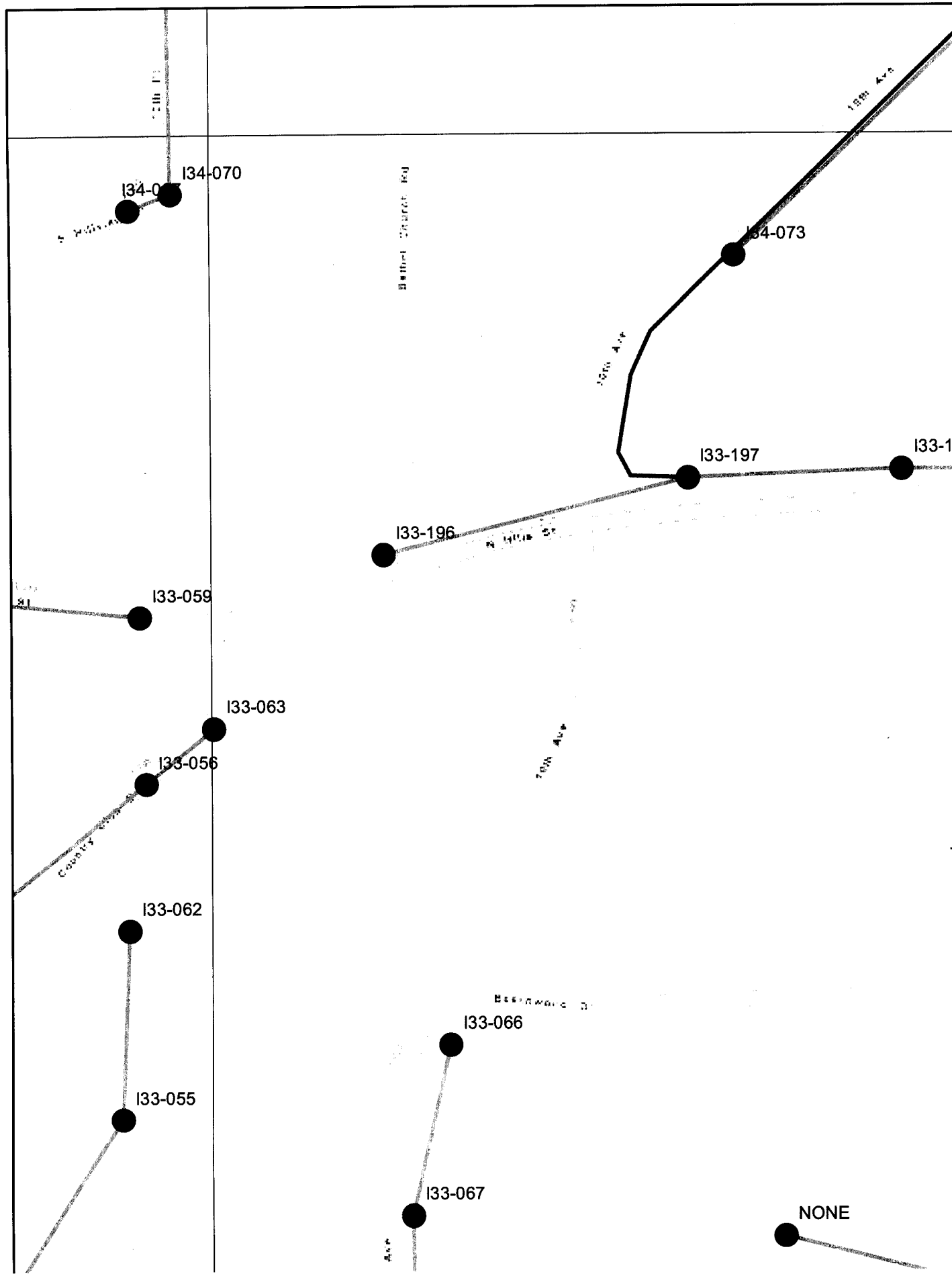
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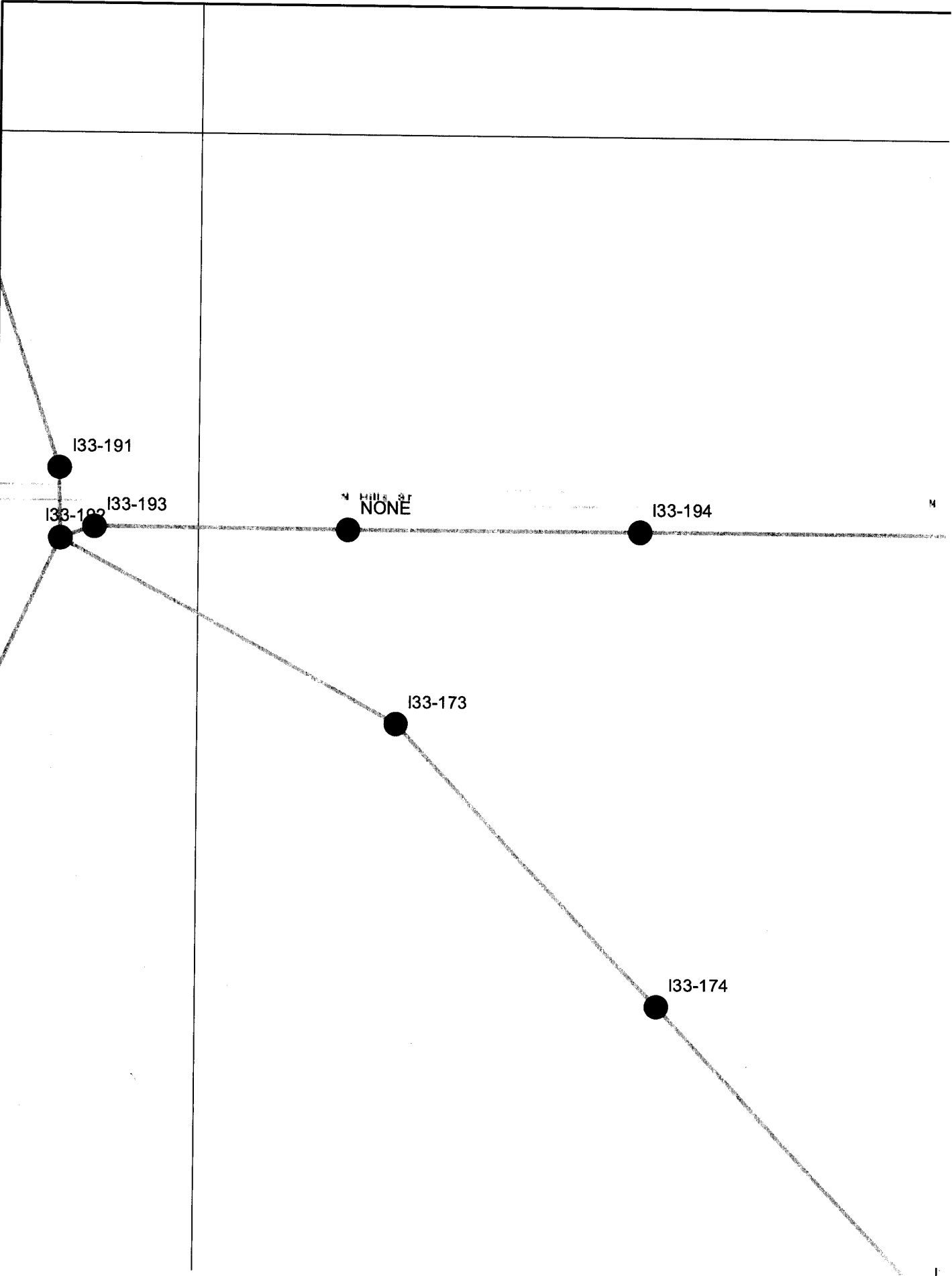
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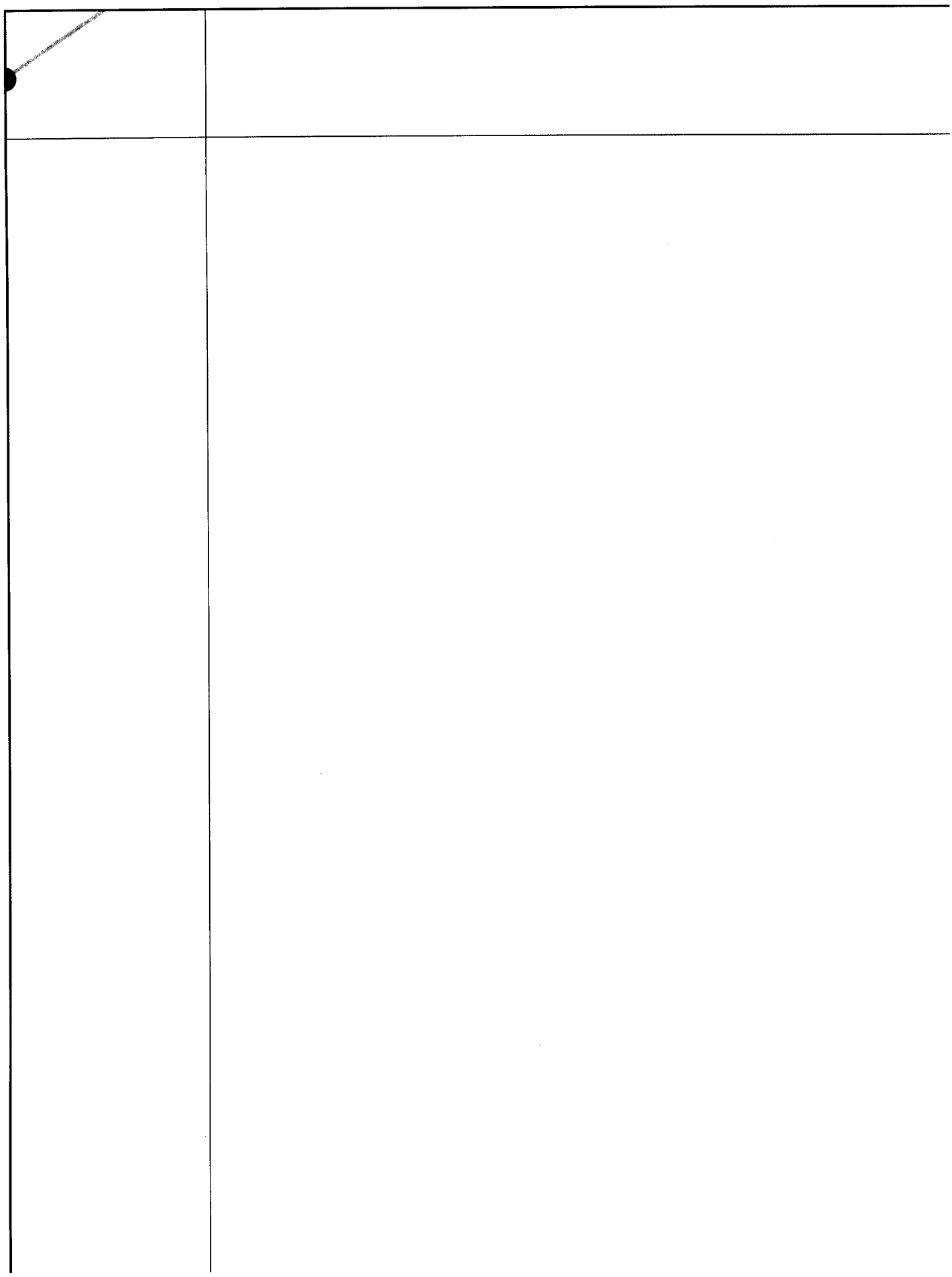
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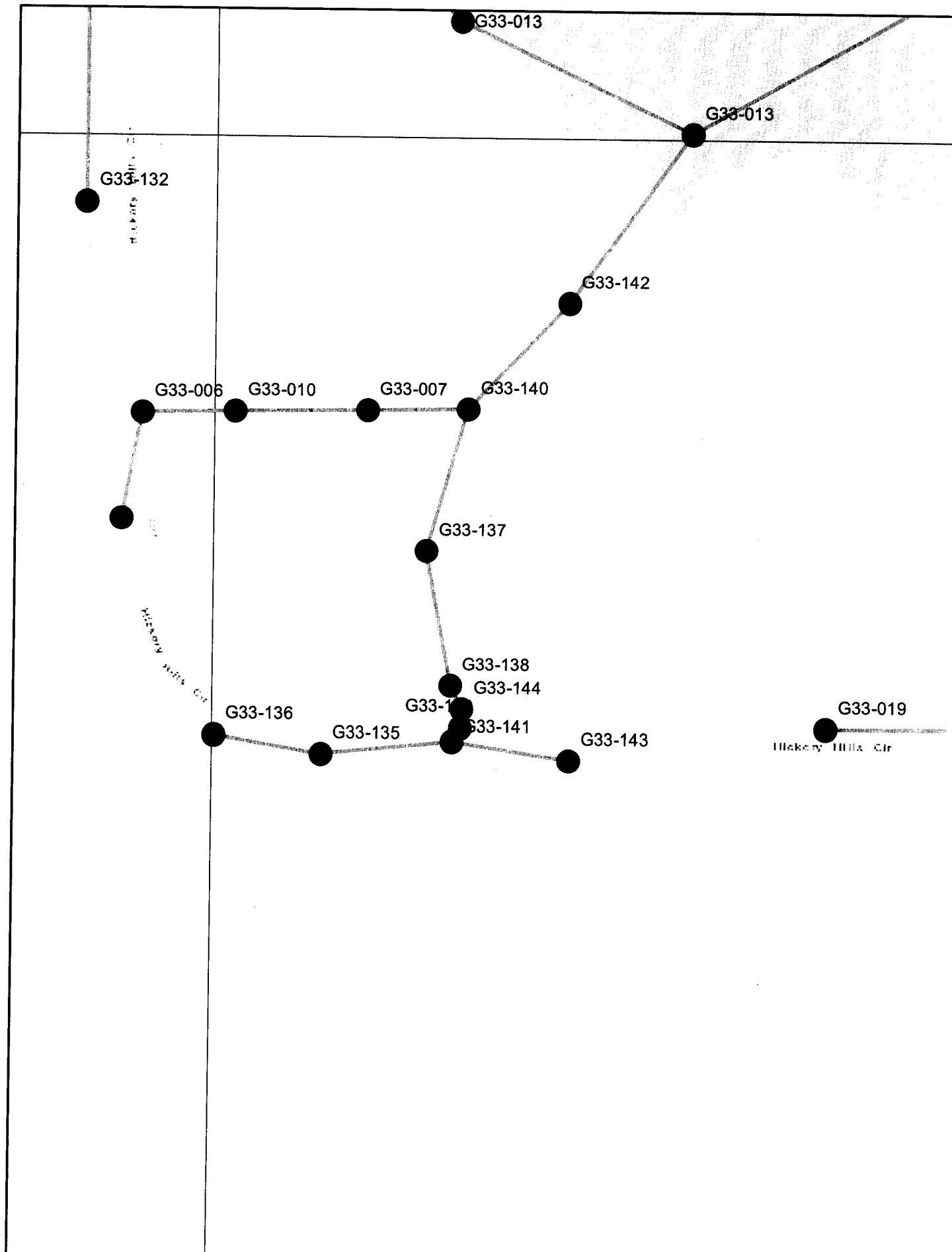
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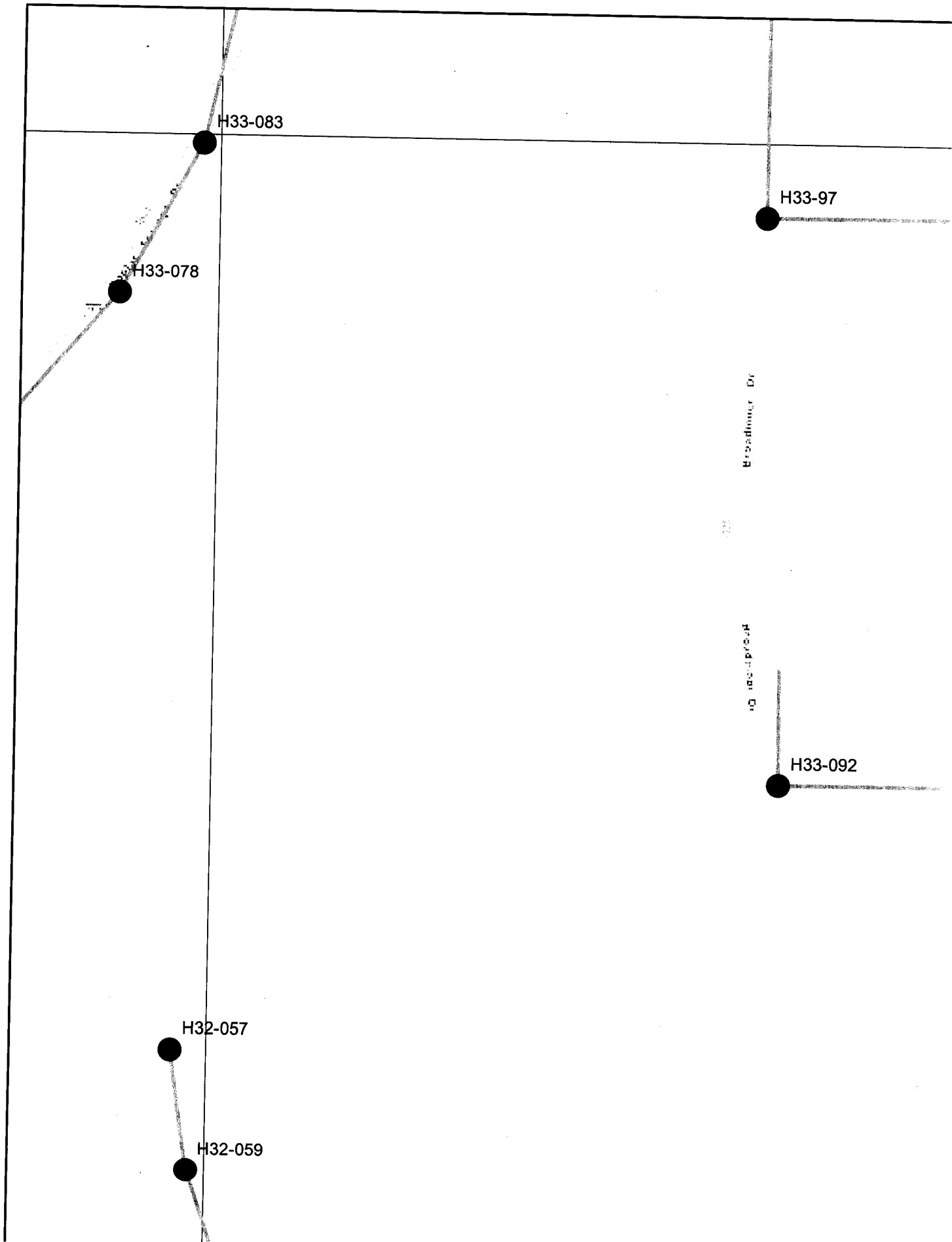
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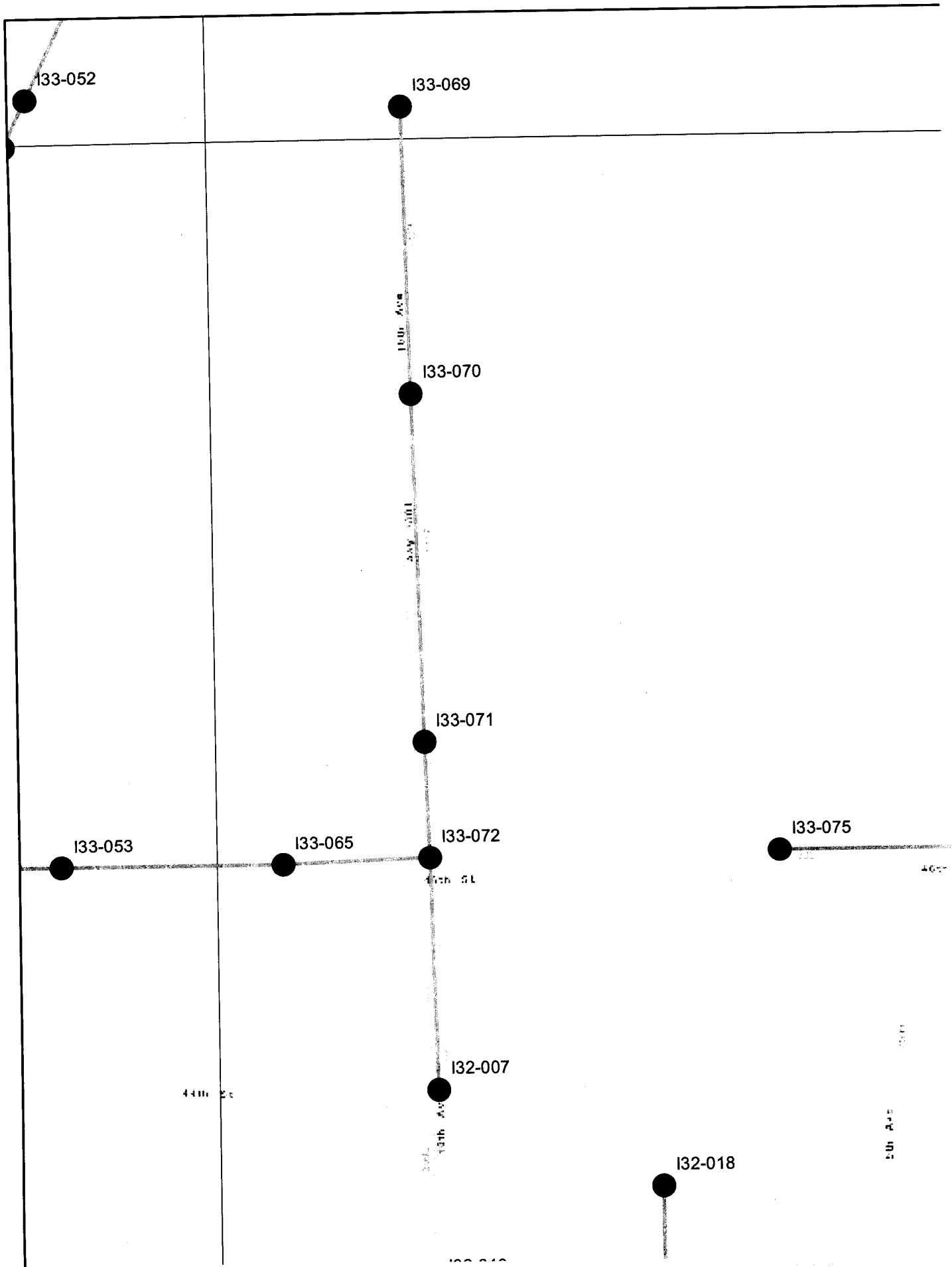
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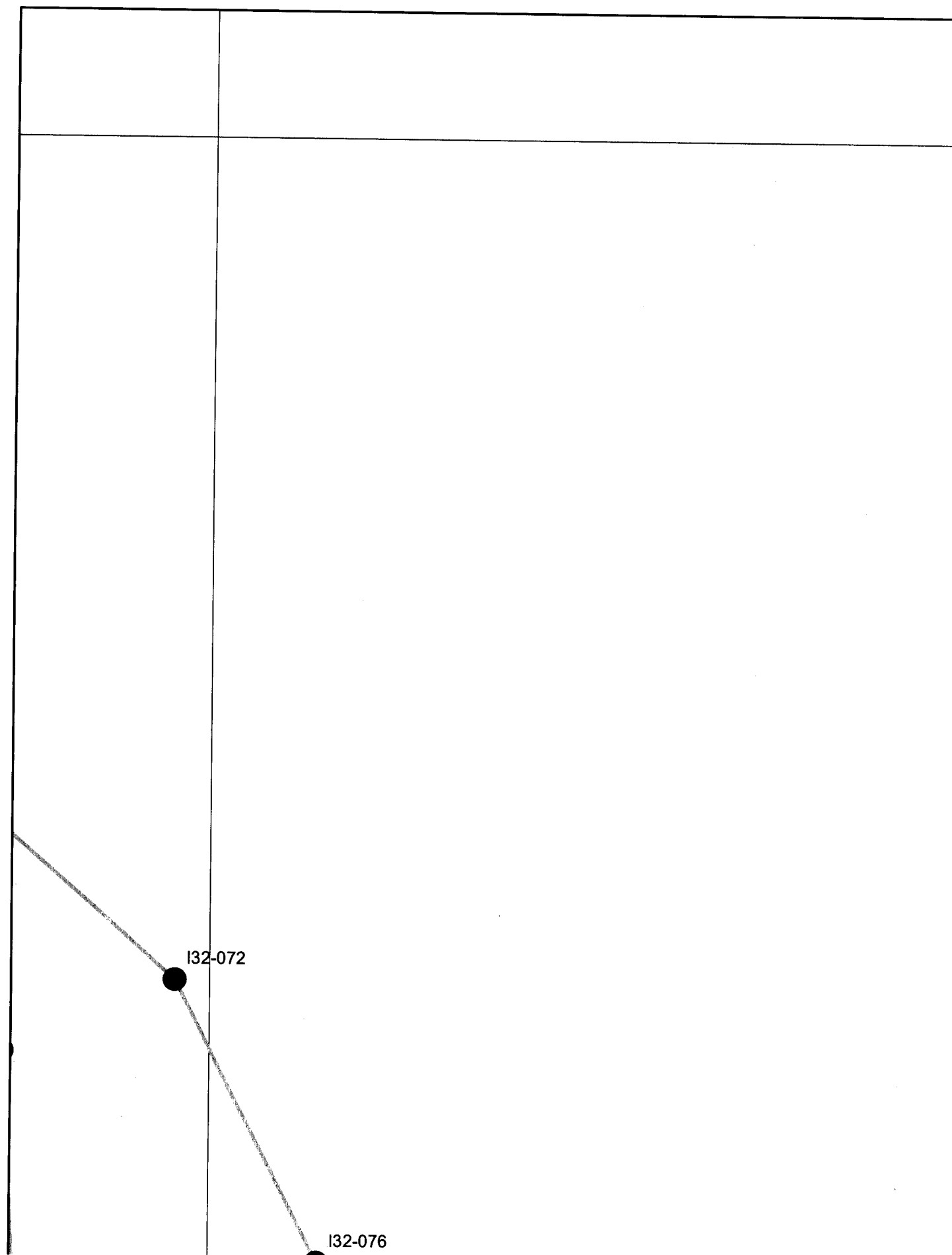
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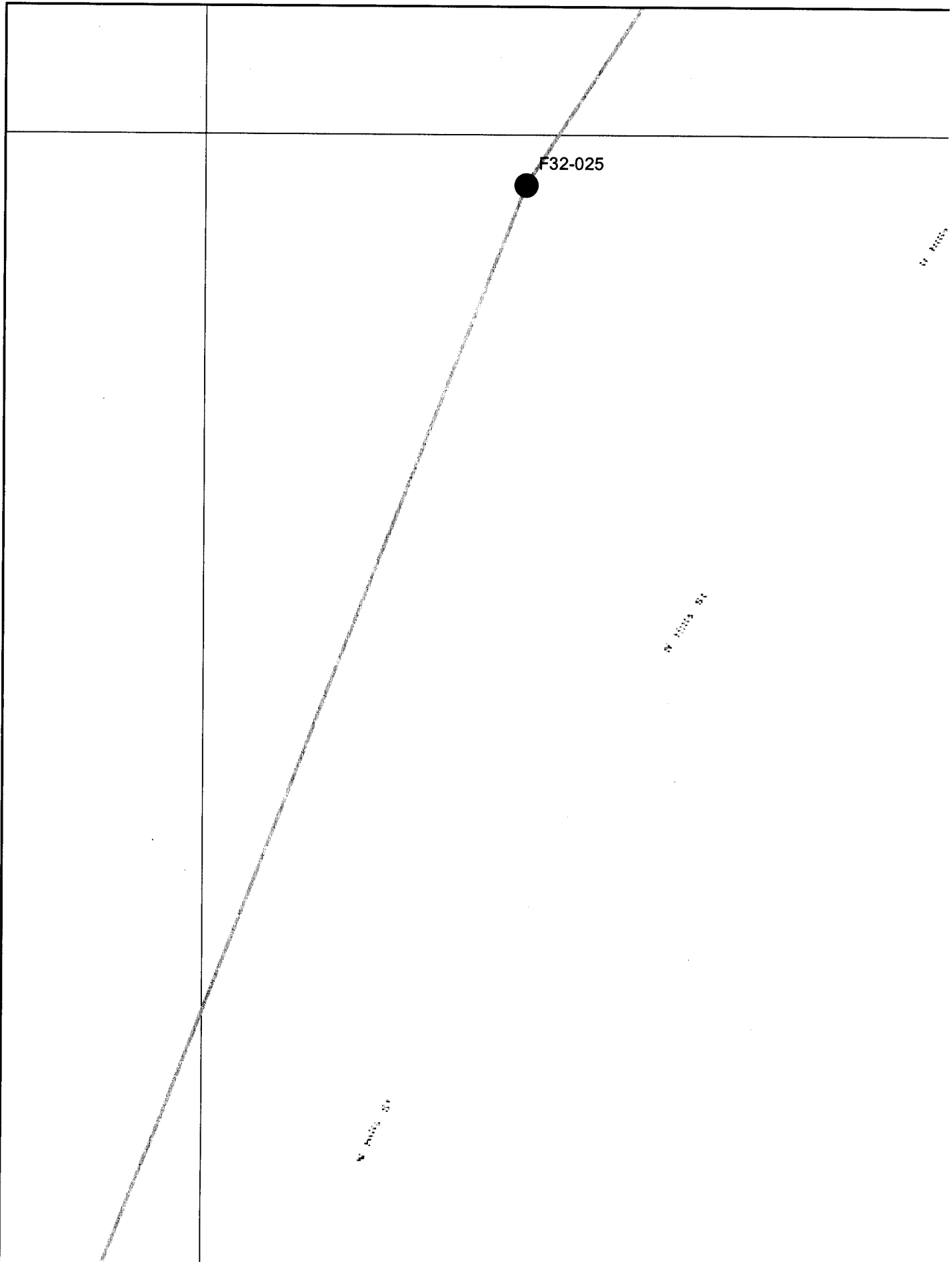
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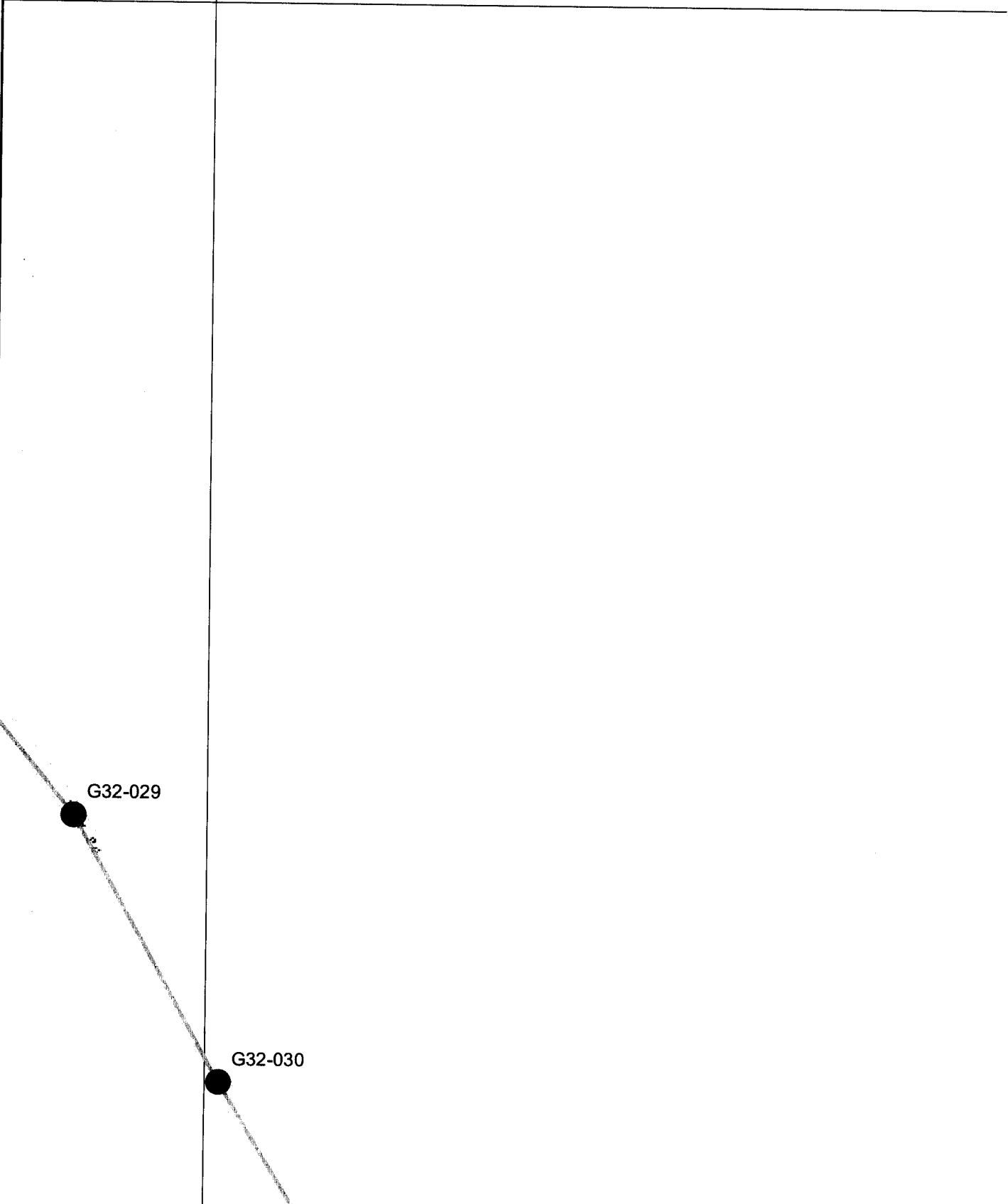


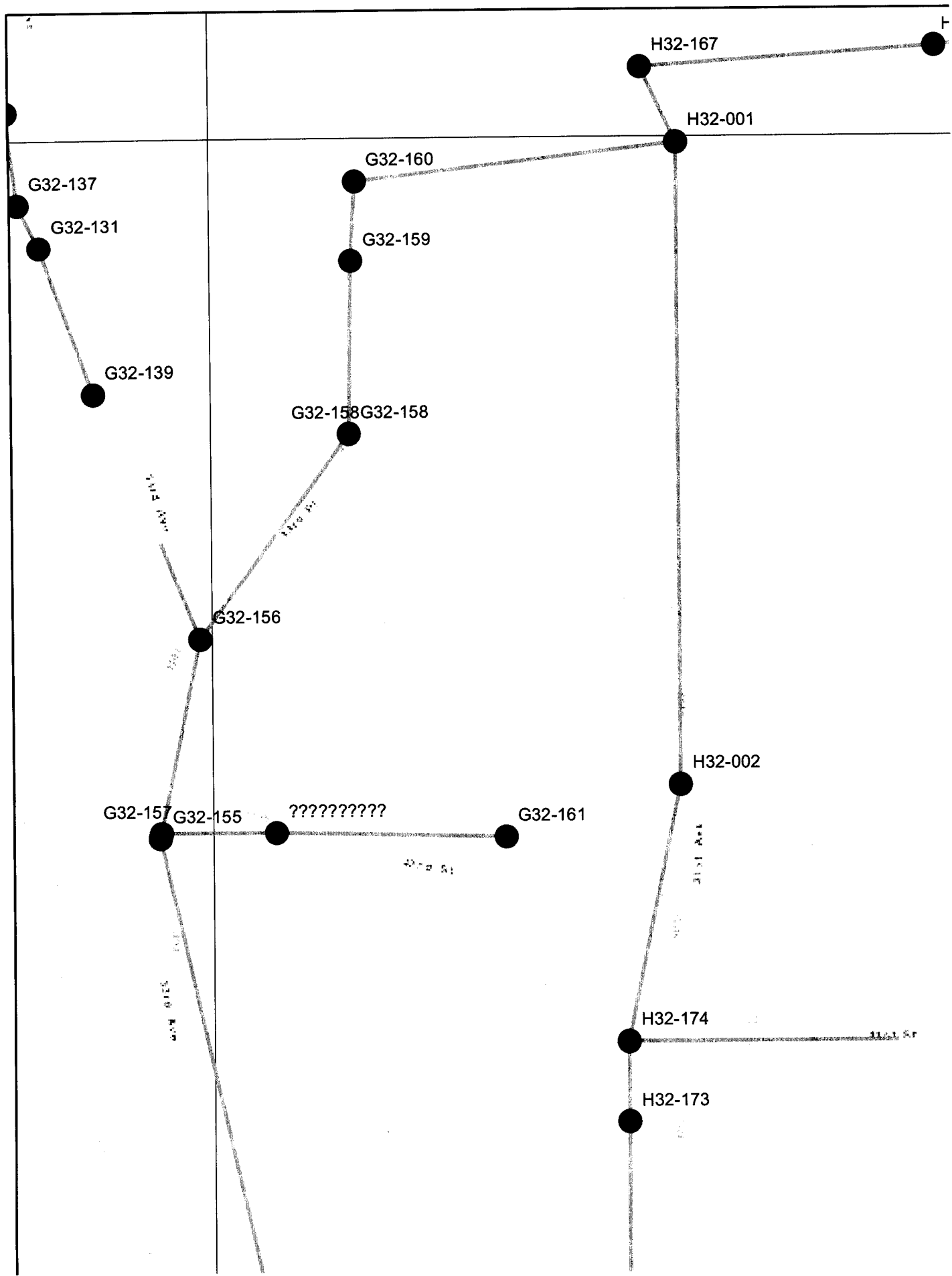


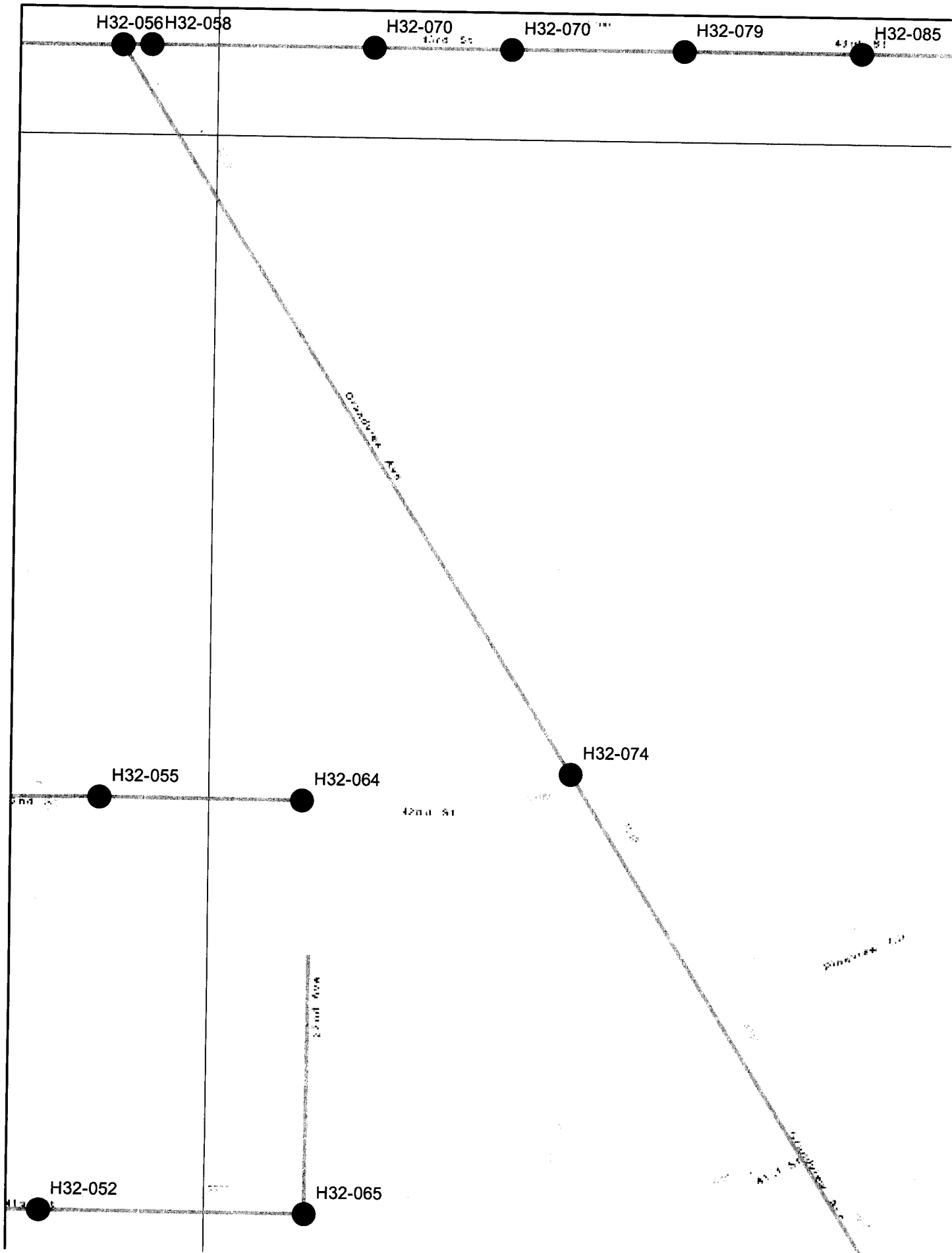
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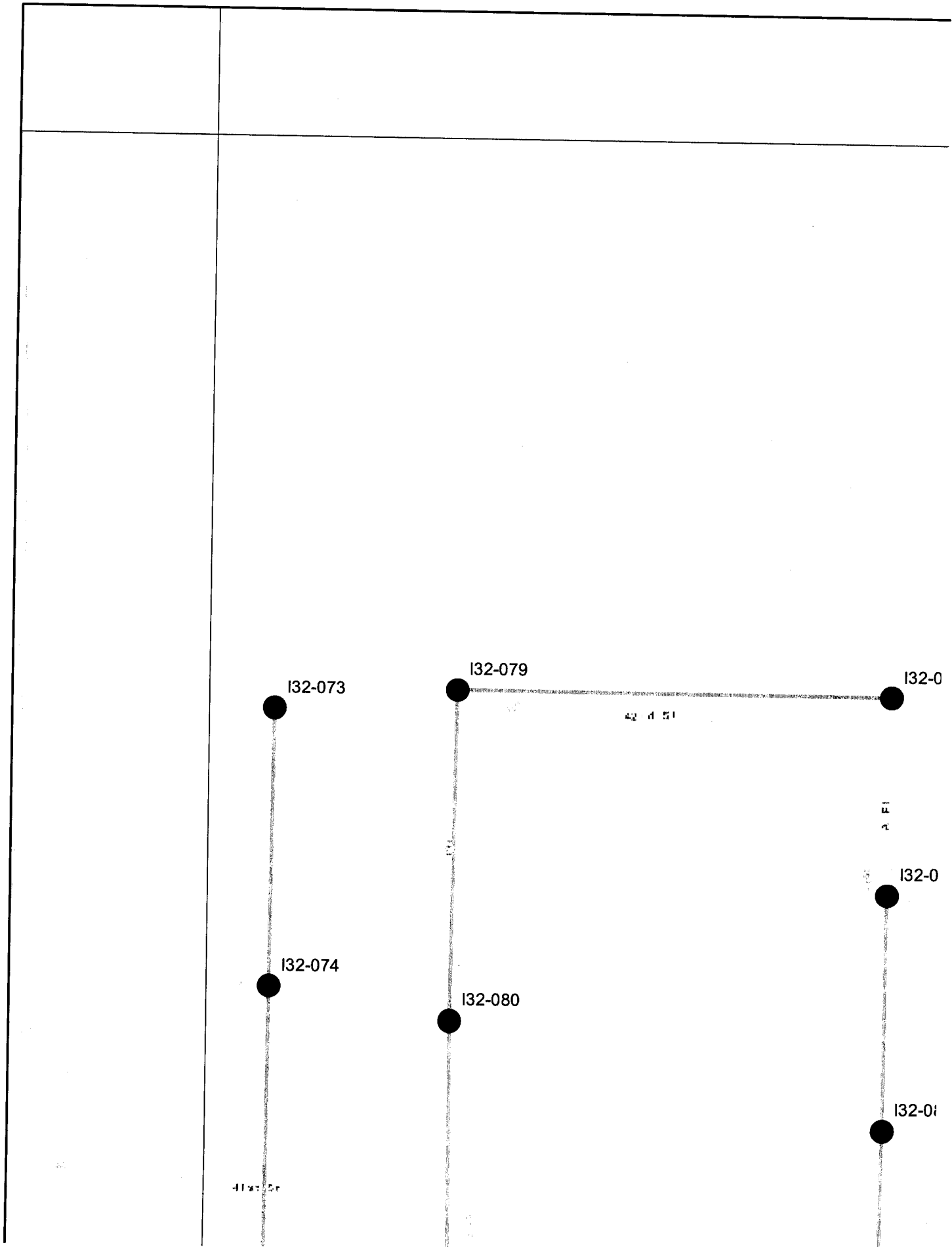


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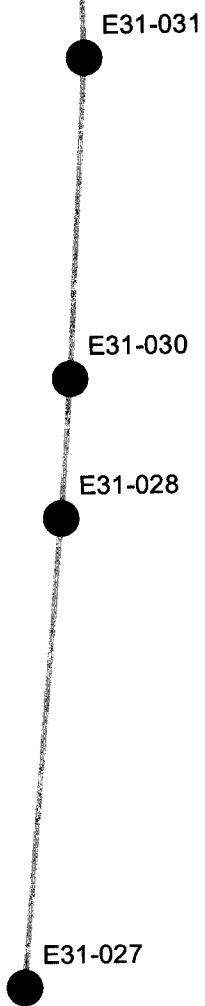
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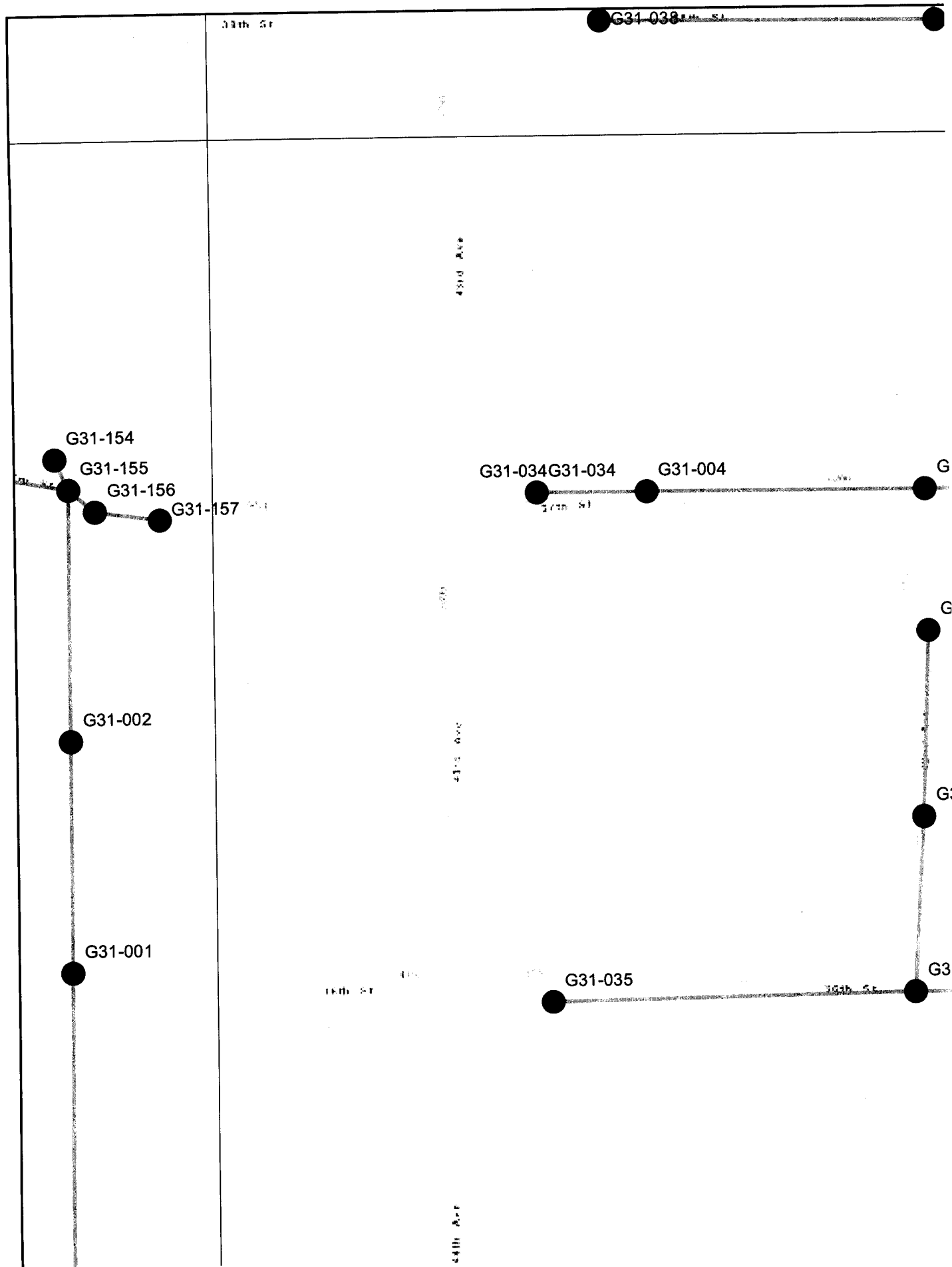
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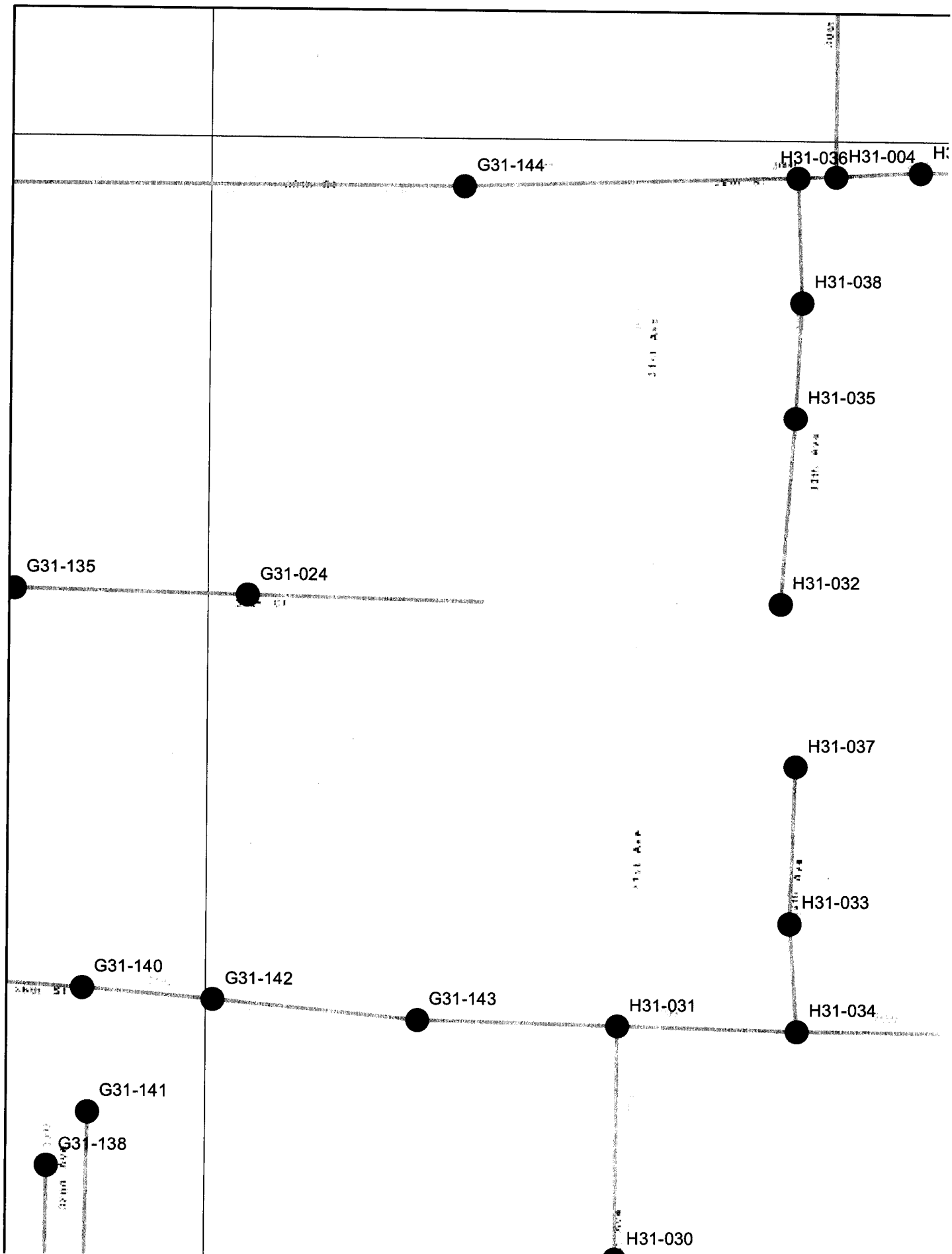
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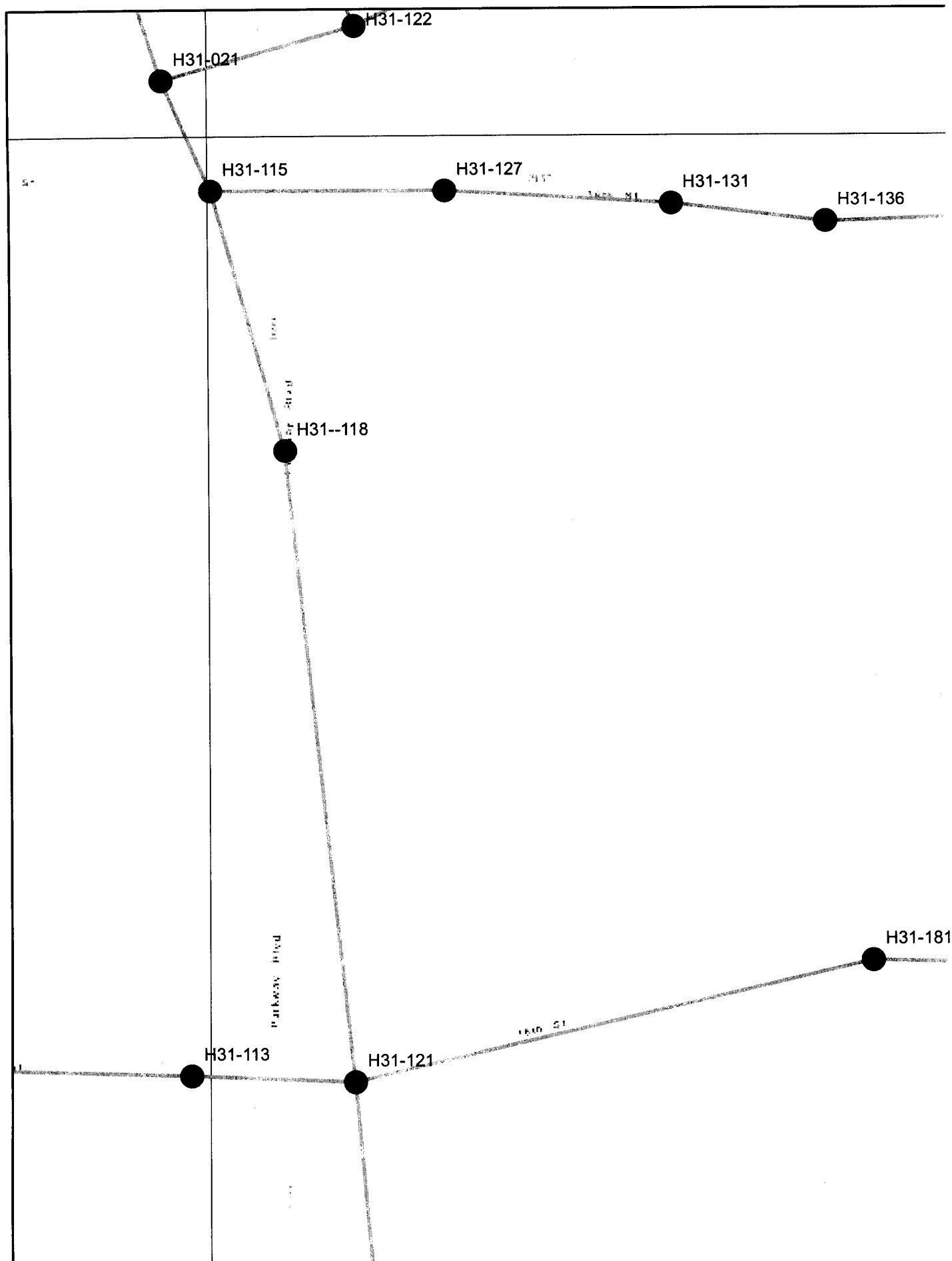


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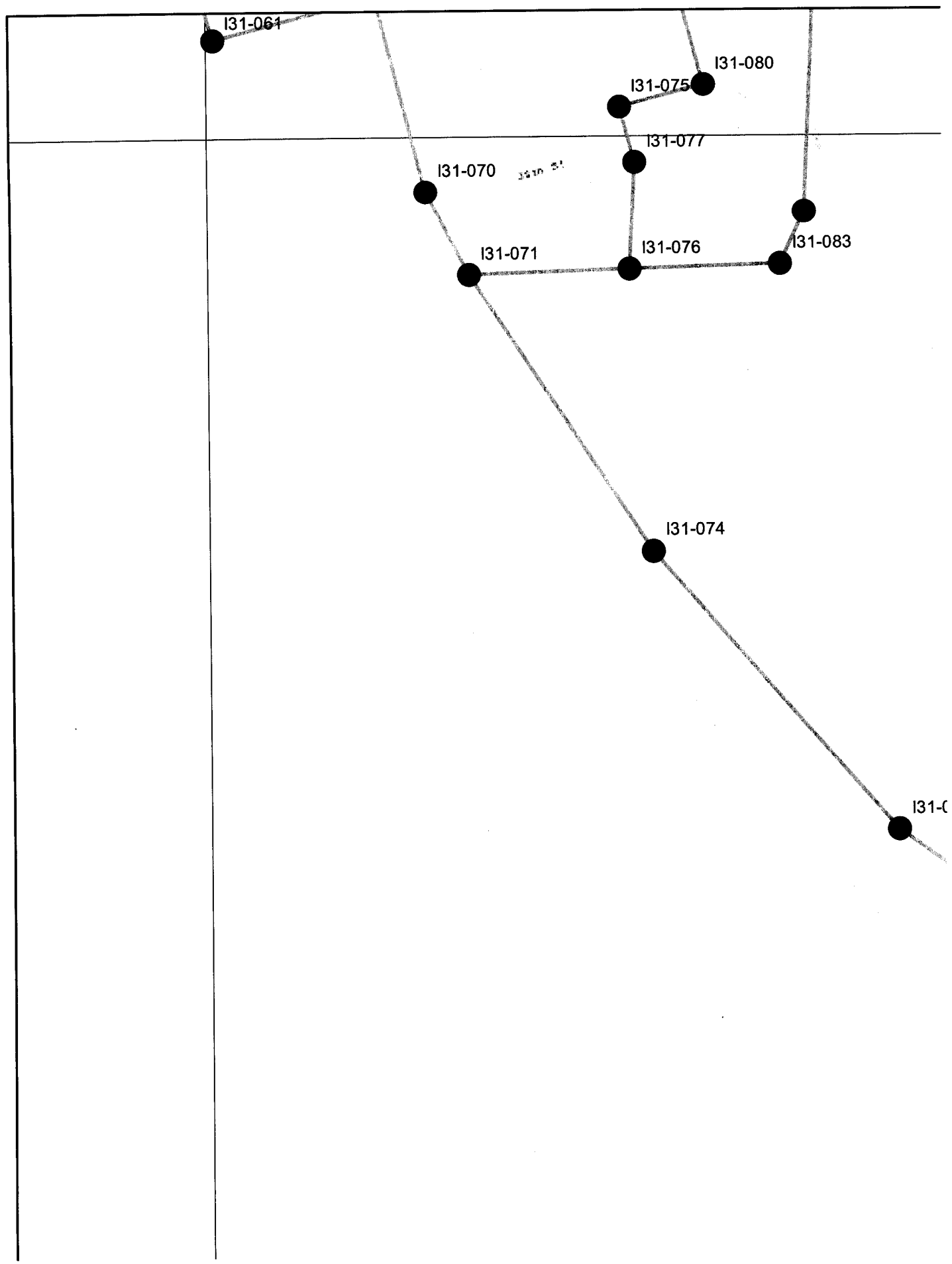
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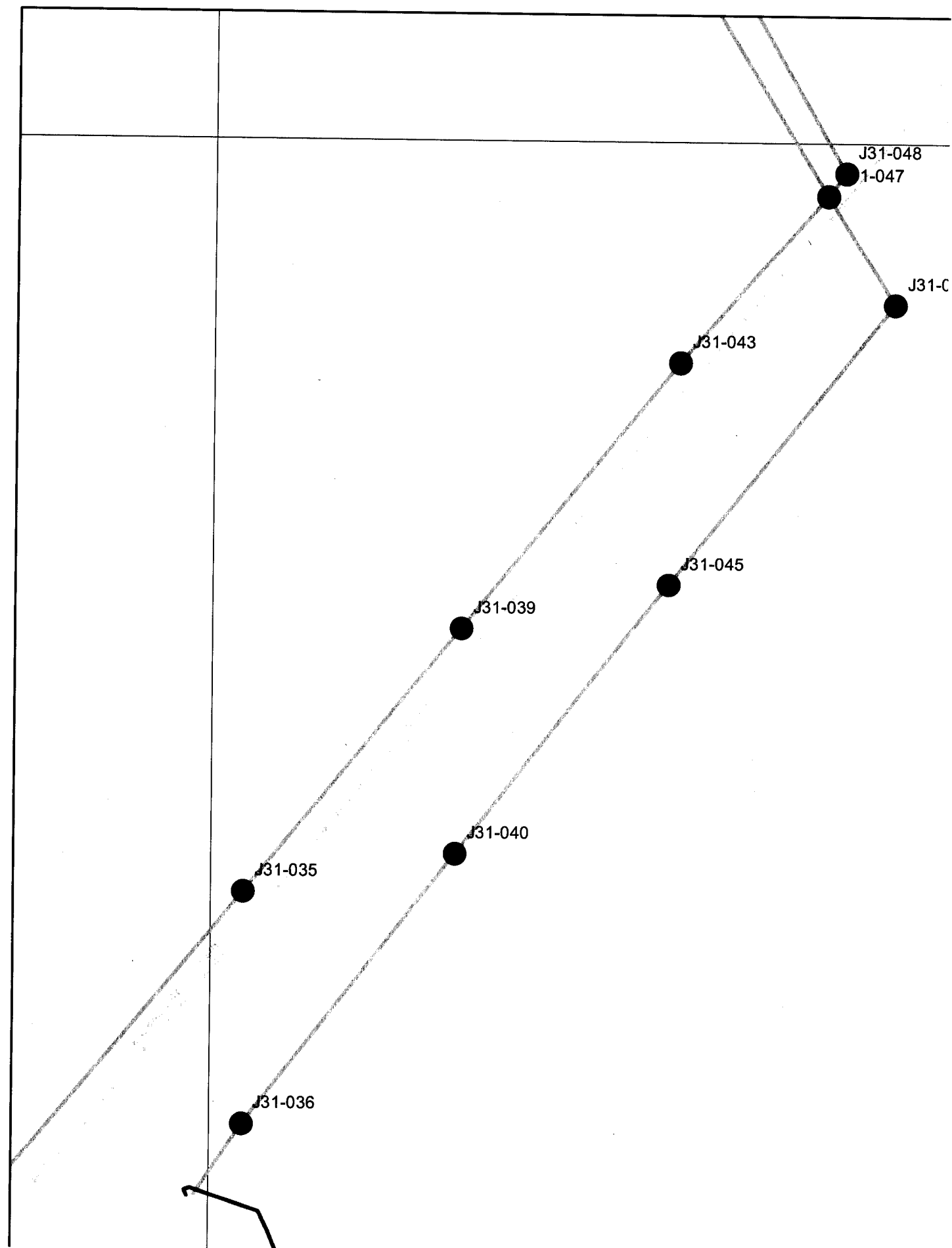
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The diagram illustrates the interaction between a polymer chain (represented by a wavy line) and a metal surface (represented by a series of circles). The polymer chain is positioned above the metal surface, and the distance between them is labeled 'd'. The metal surface is composed of several atoms, each represented by a circle. The polymer chain is labeled 'P' and the metal surface is labeled 'M'. The distance 'd' is indicated by a vertical arrow pointing from the polymer chain to the metal surface.

$$f_{\text{eff}} = \frac{1}{2} \left(1 + \frac{1}{2} \frac{1}{\text{Re}} \right) \quad (1)$$

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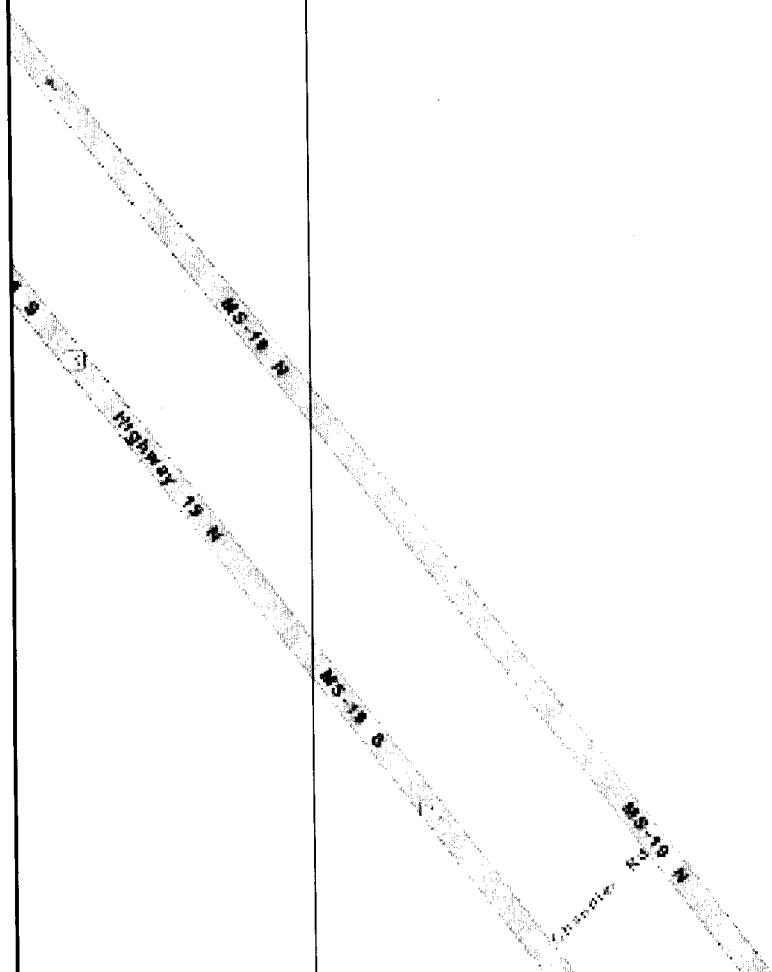
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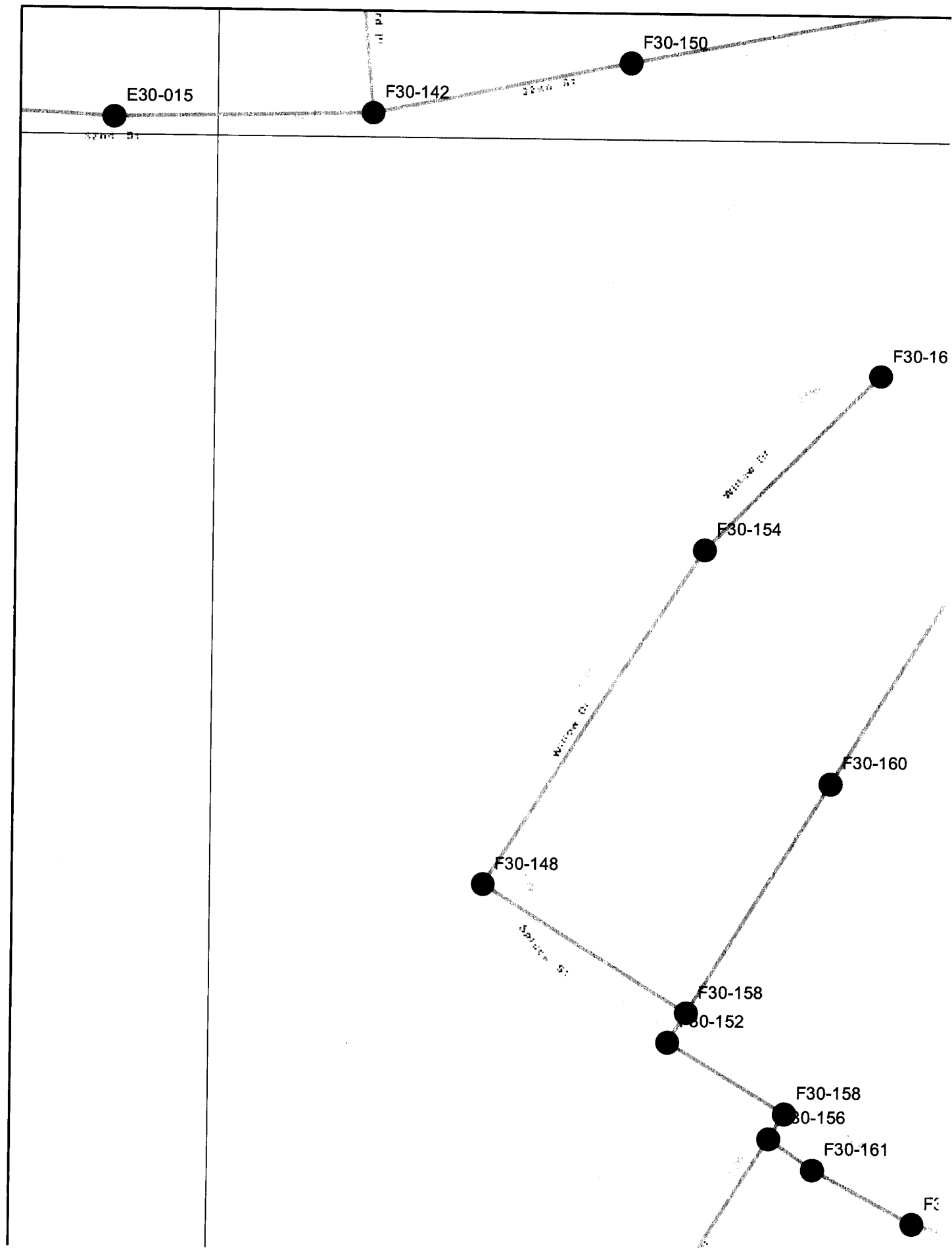
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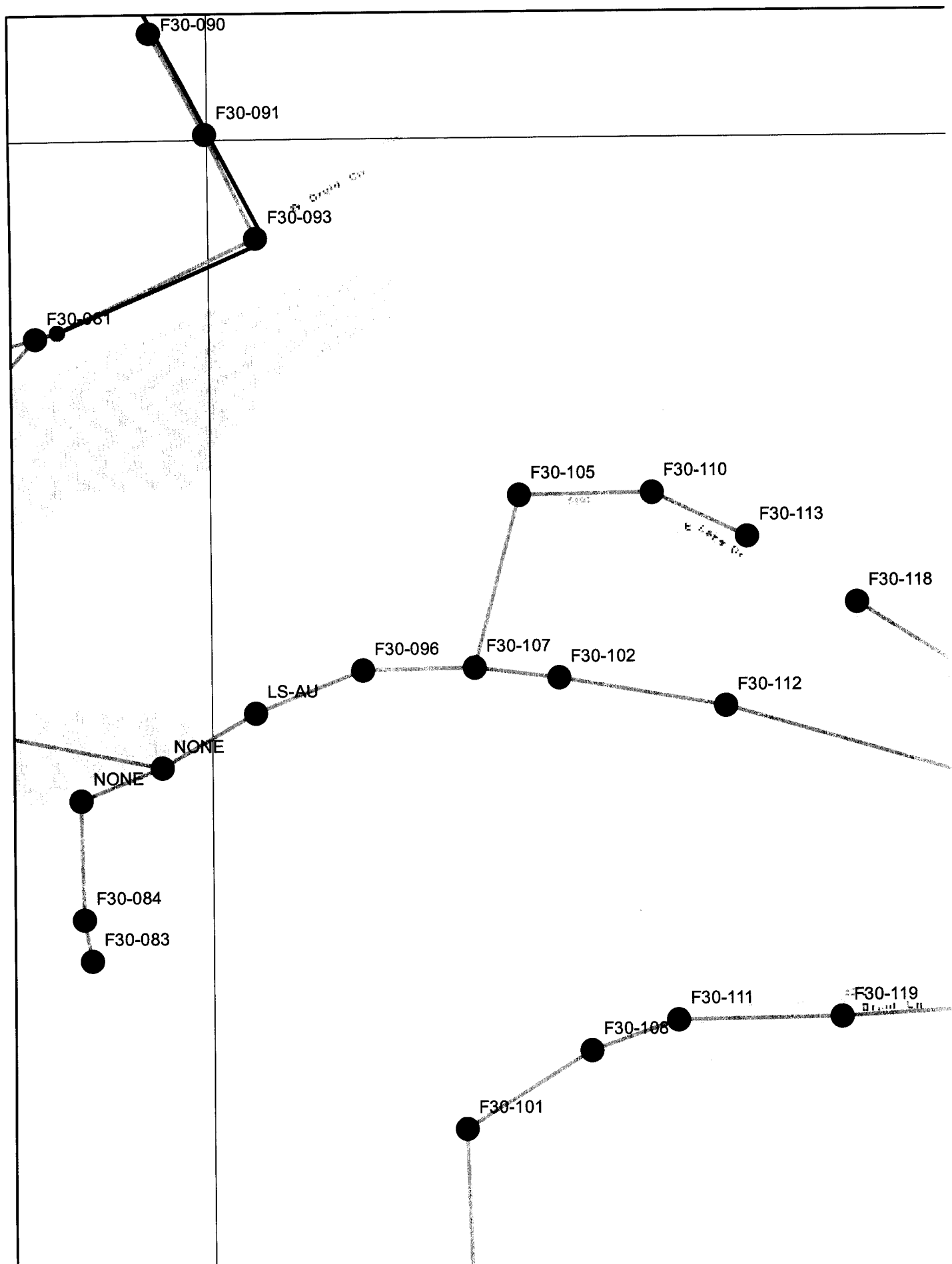
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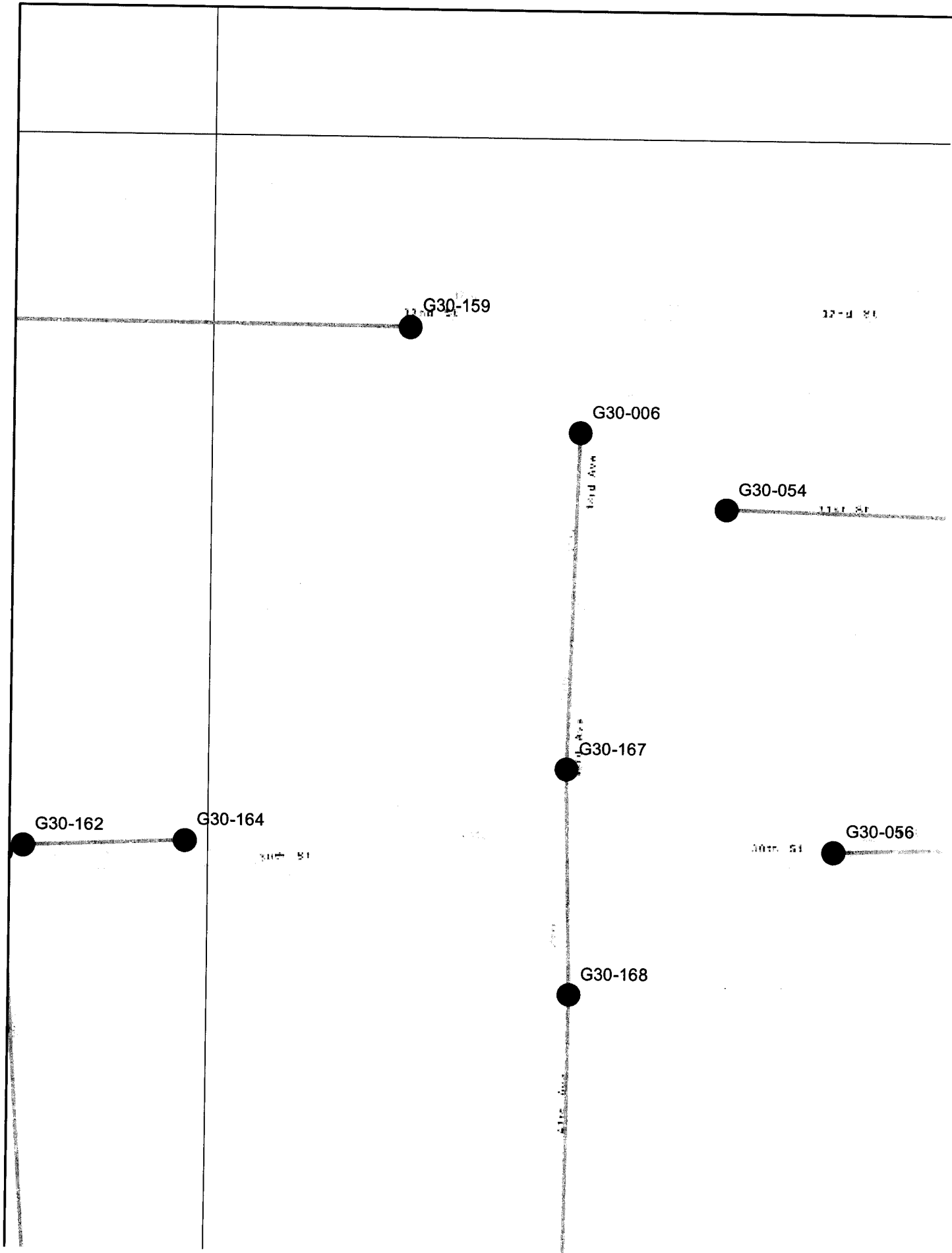
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G30-162

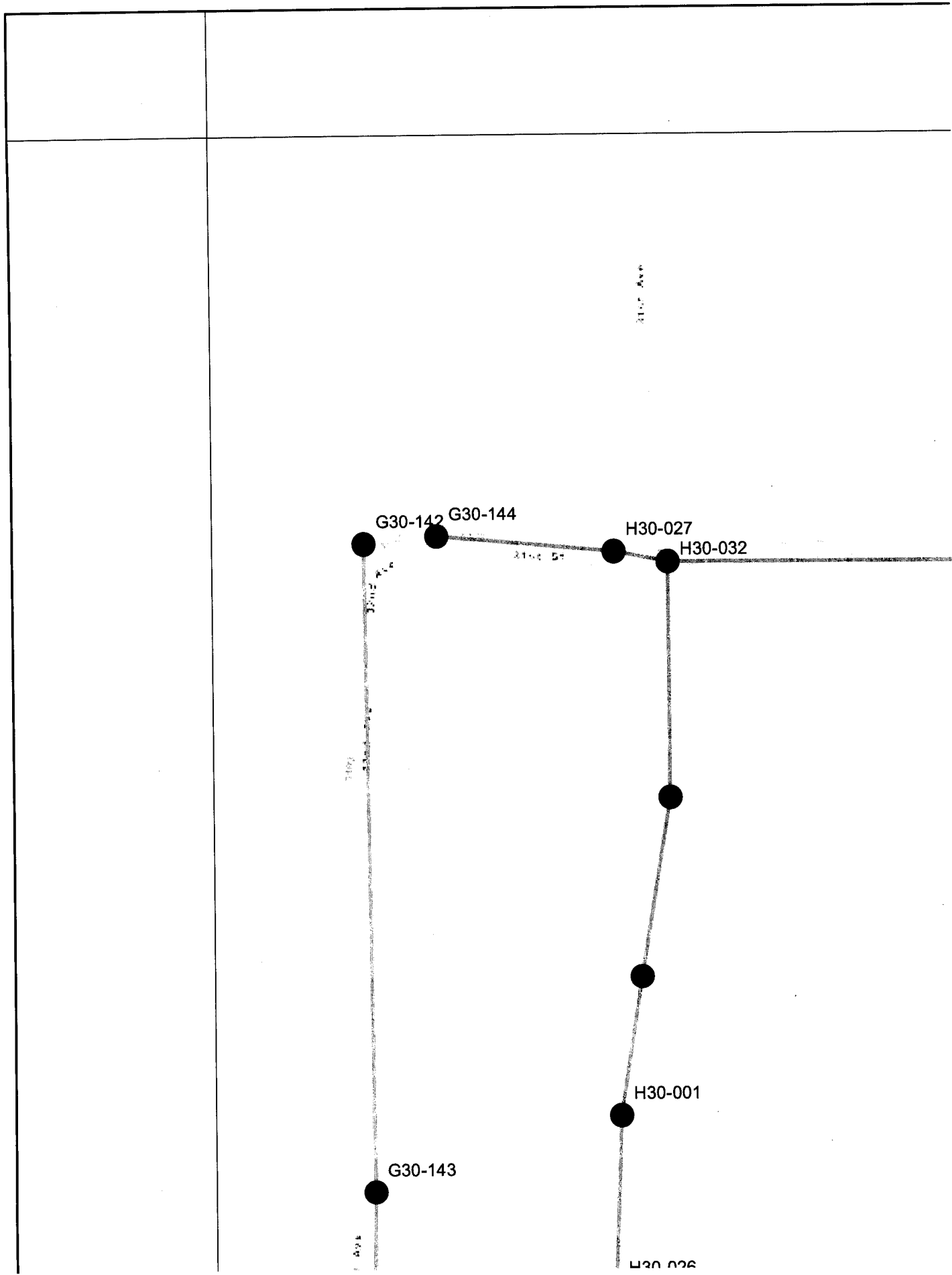
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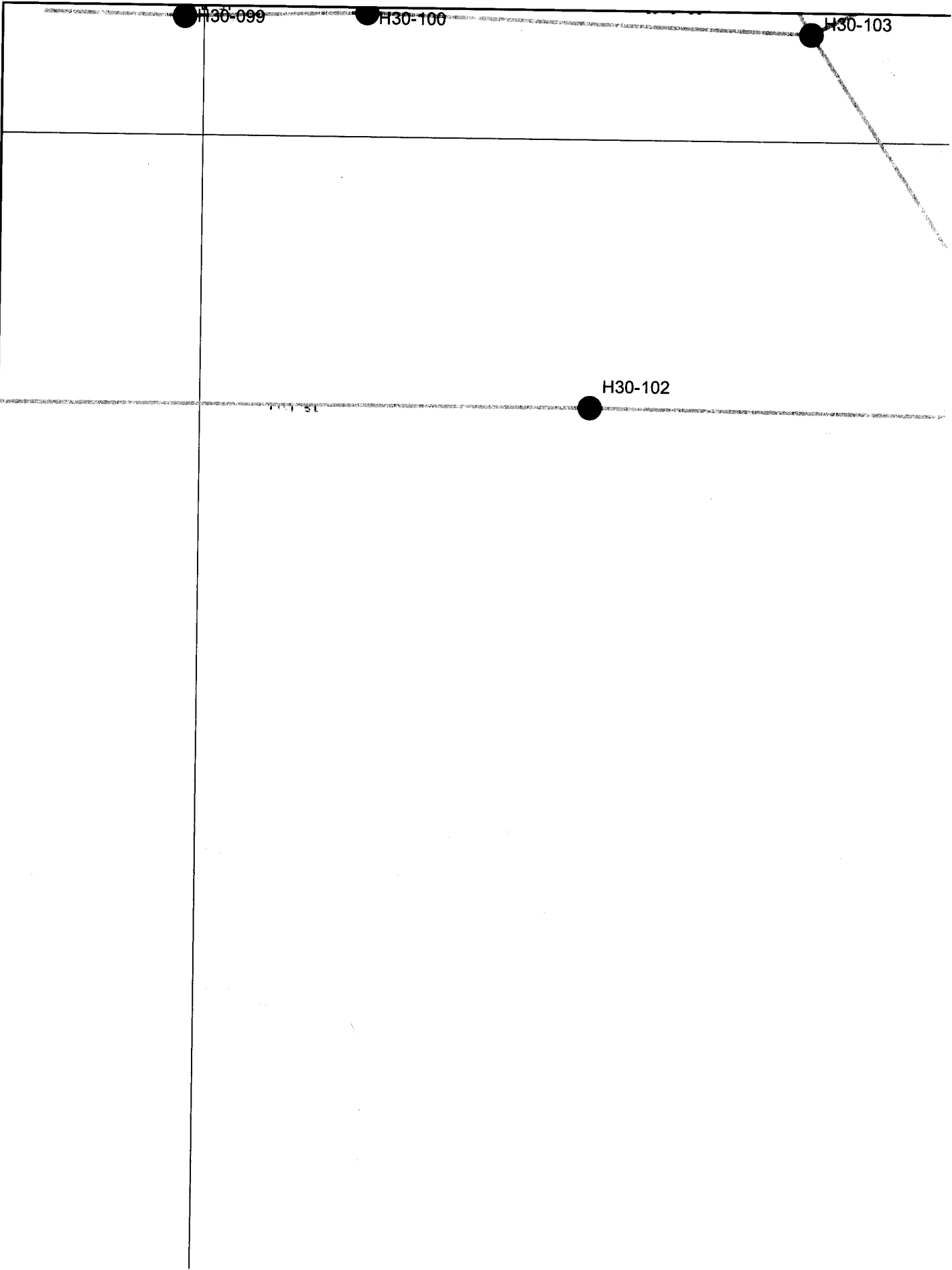
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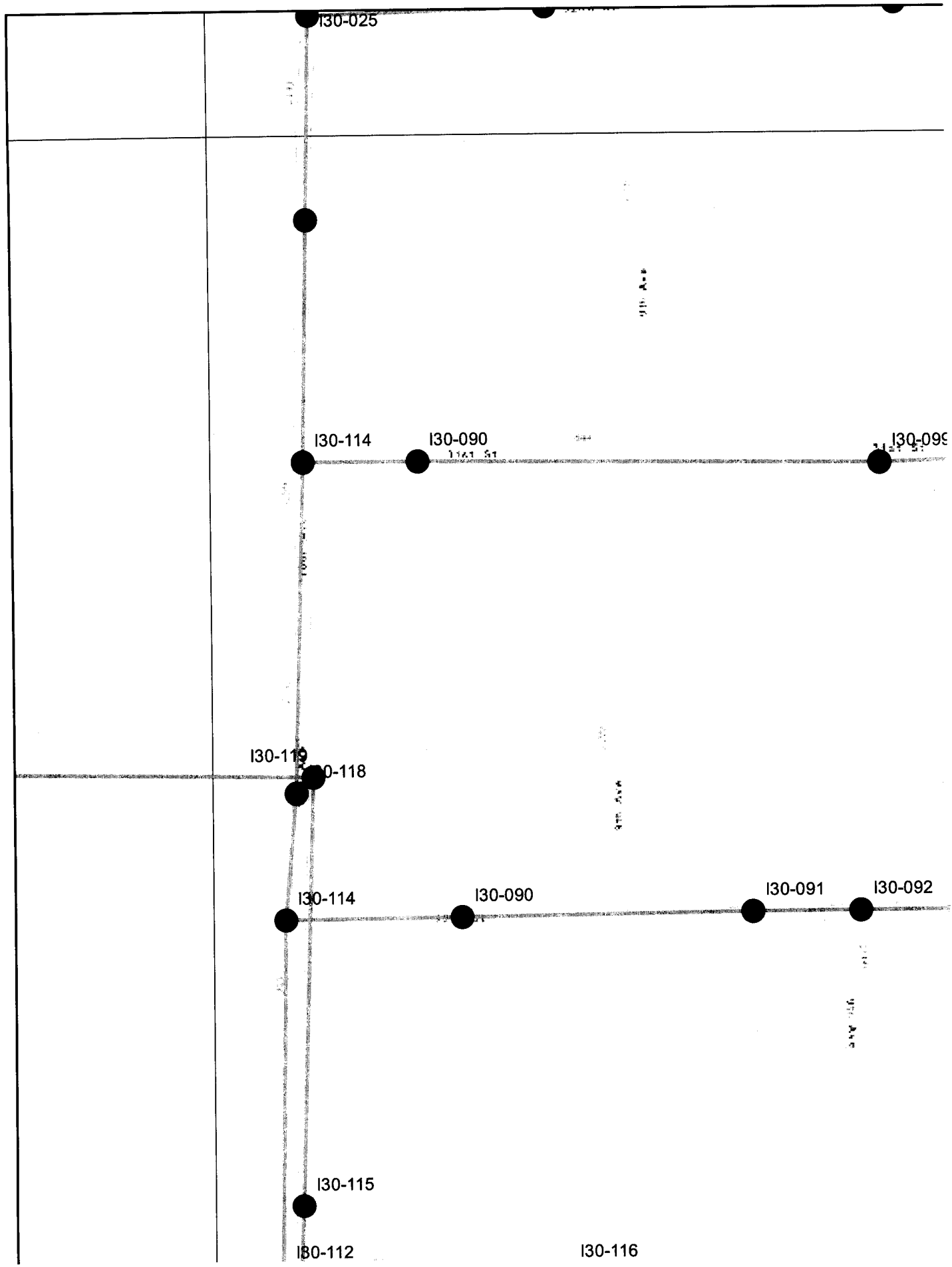
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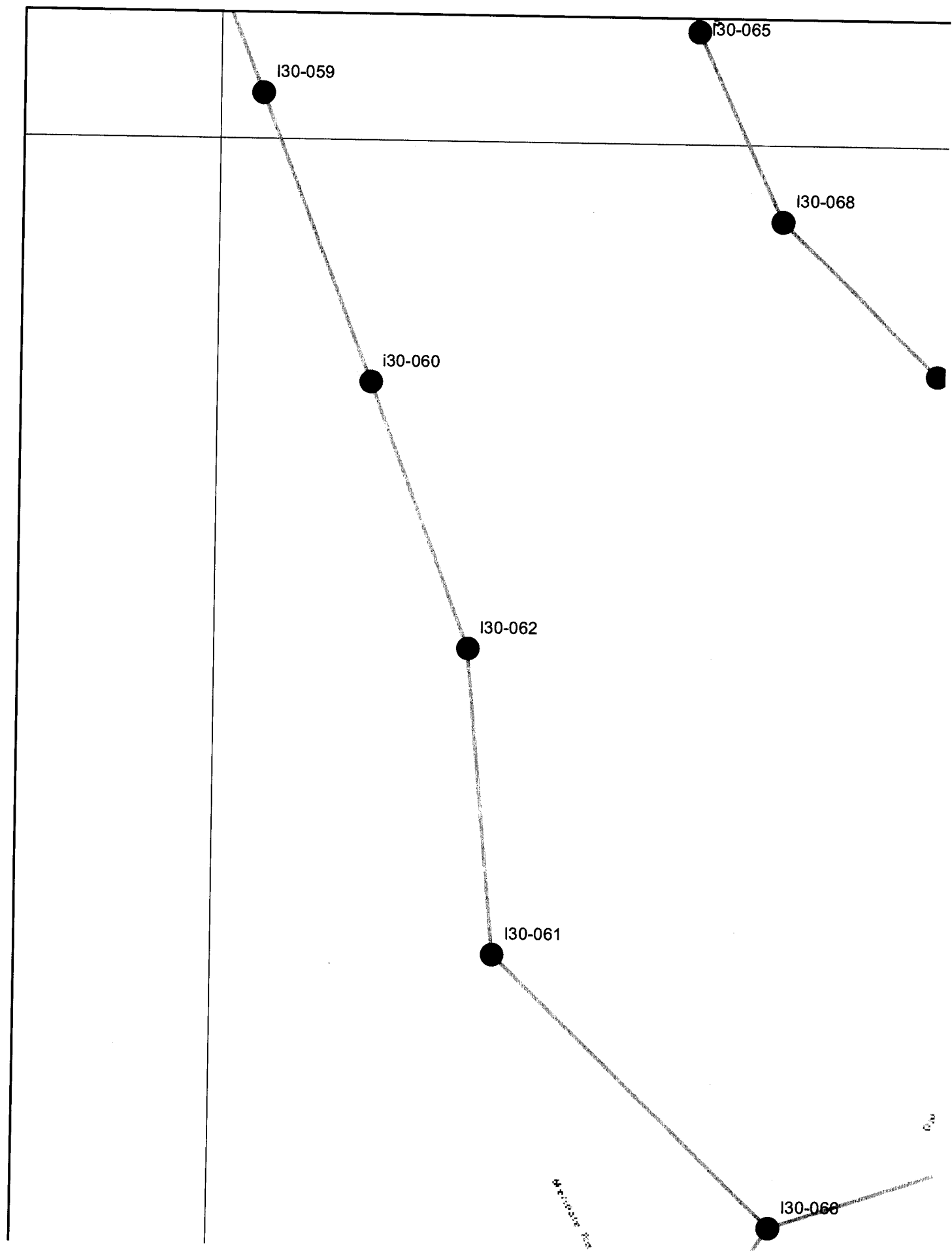
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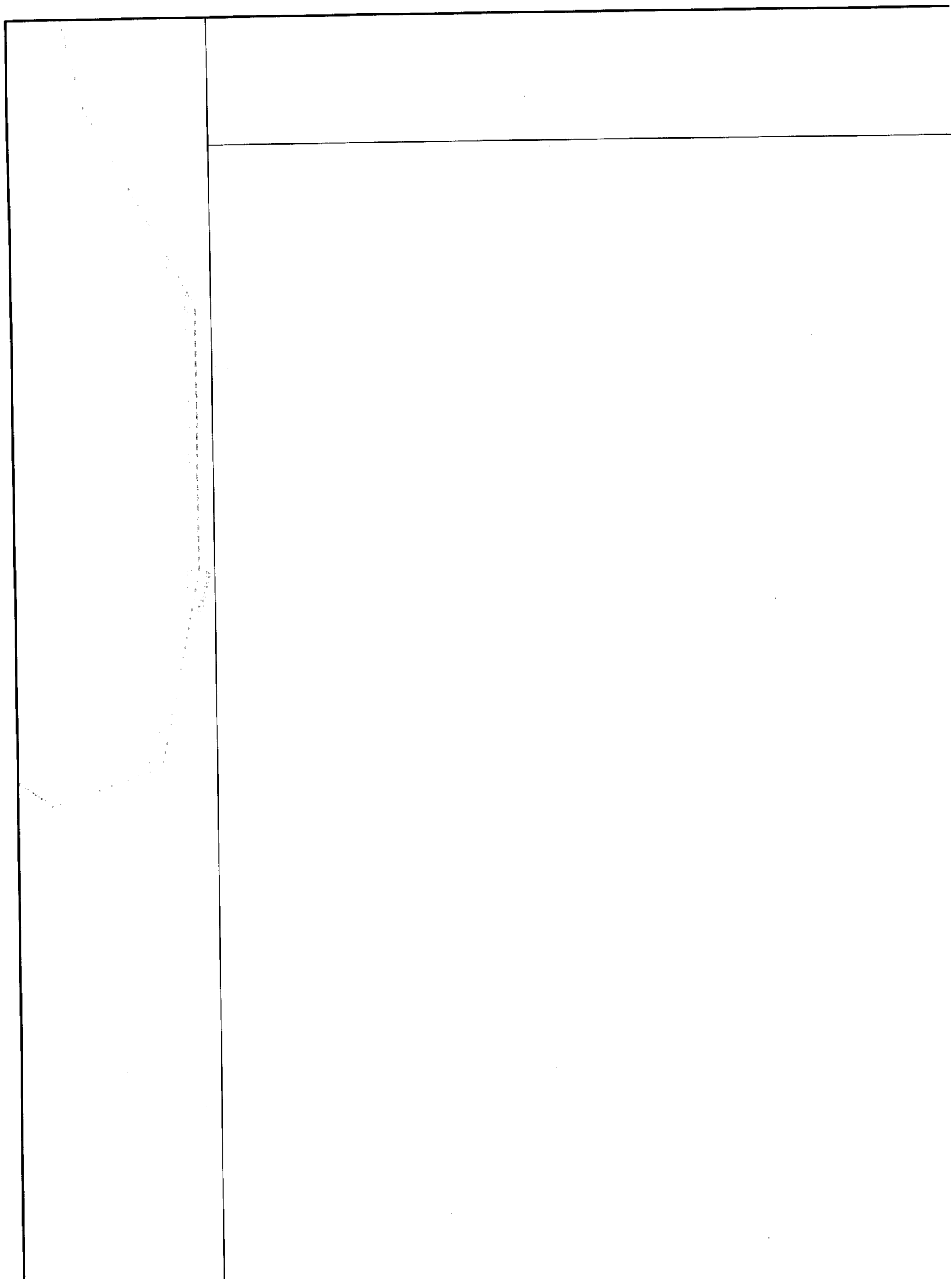
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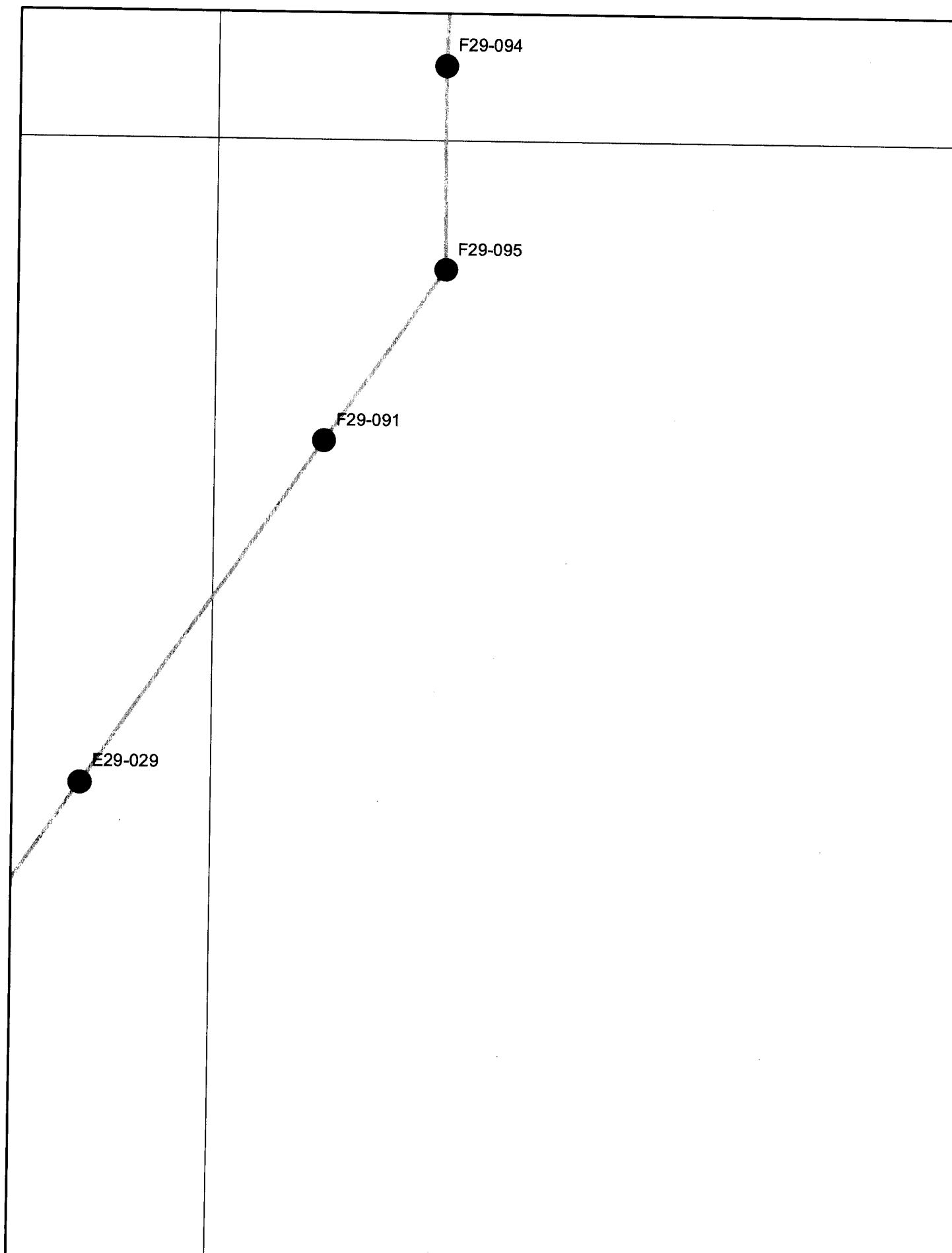


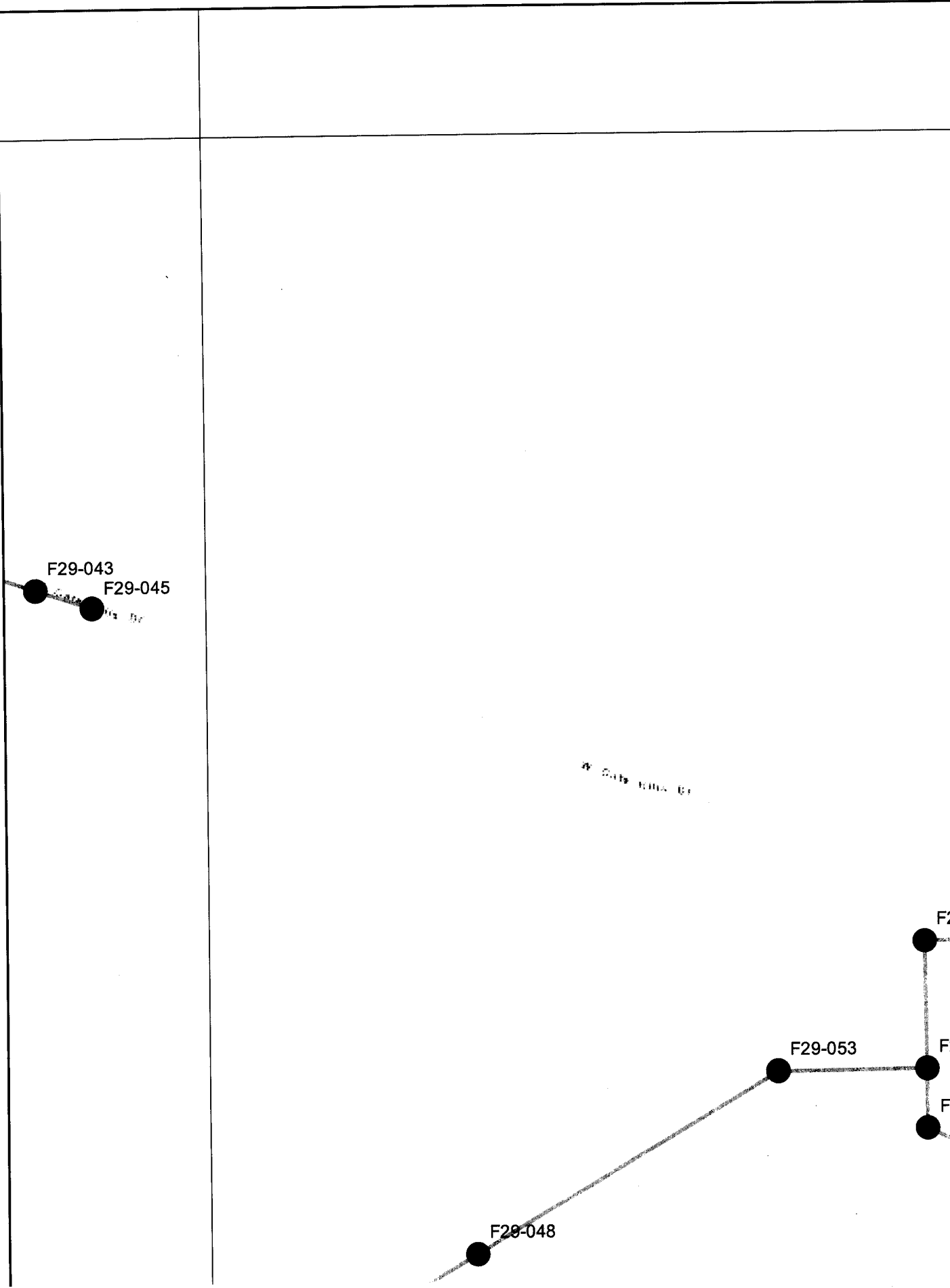


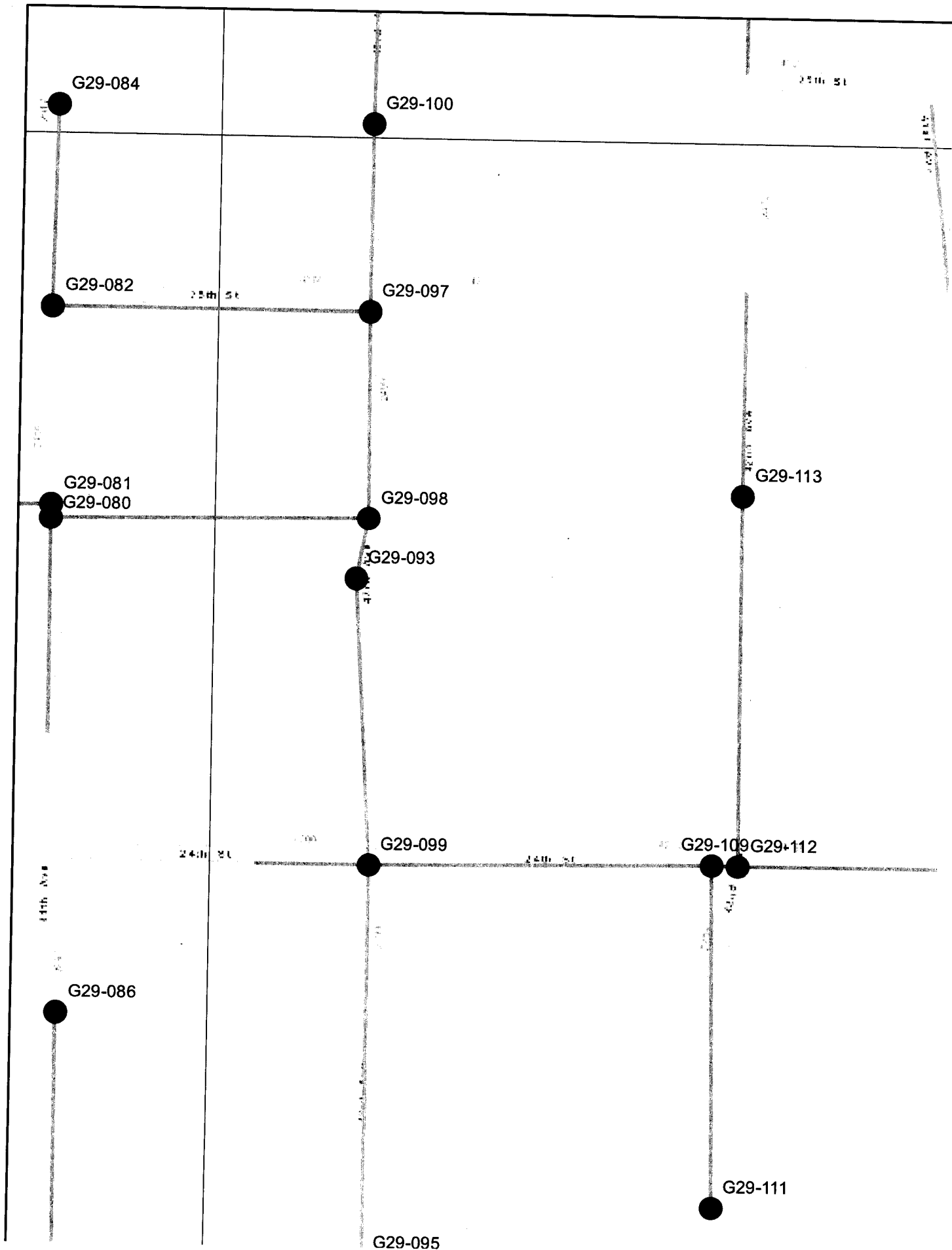


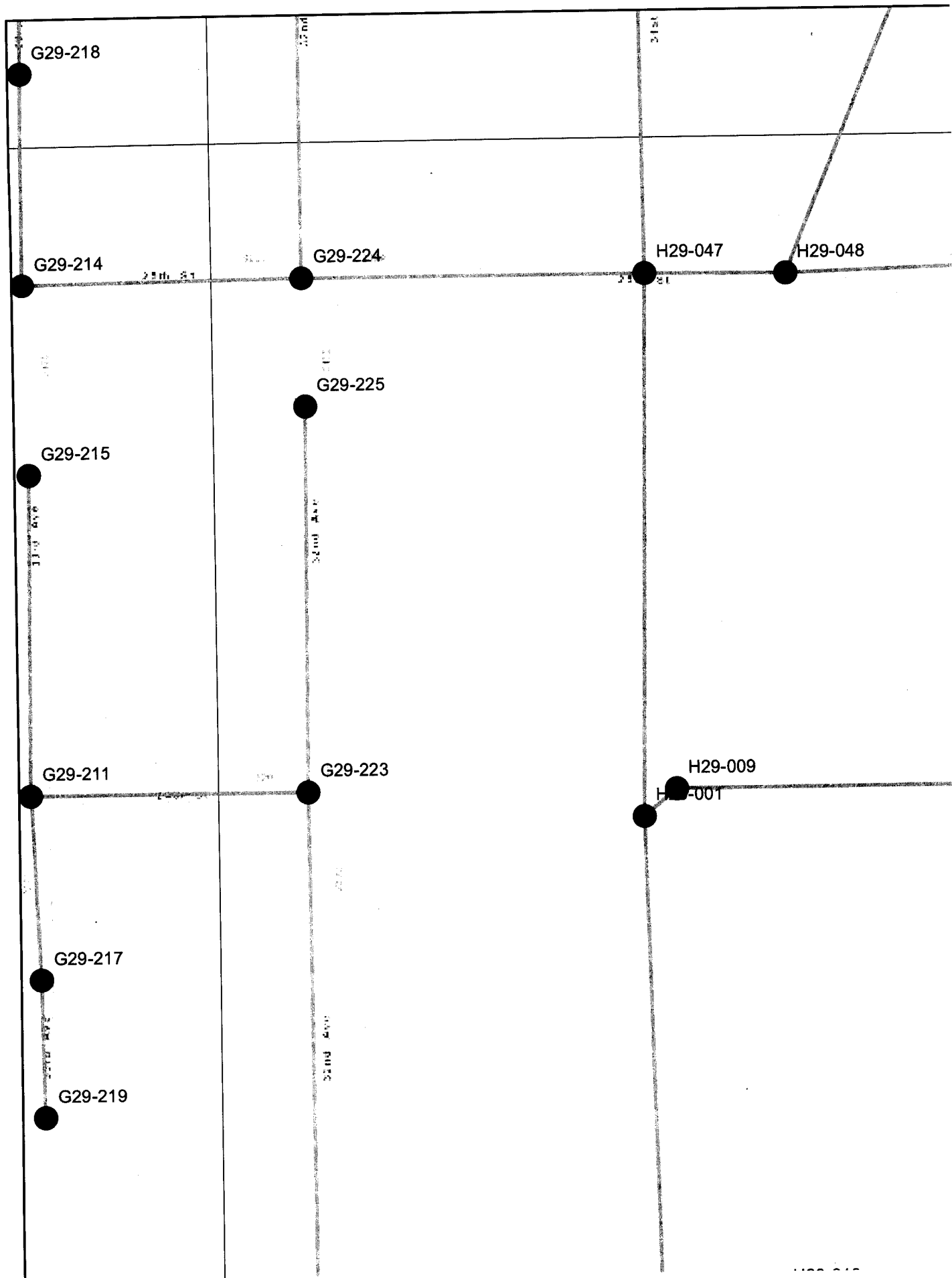


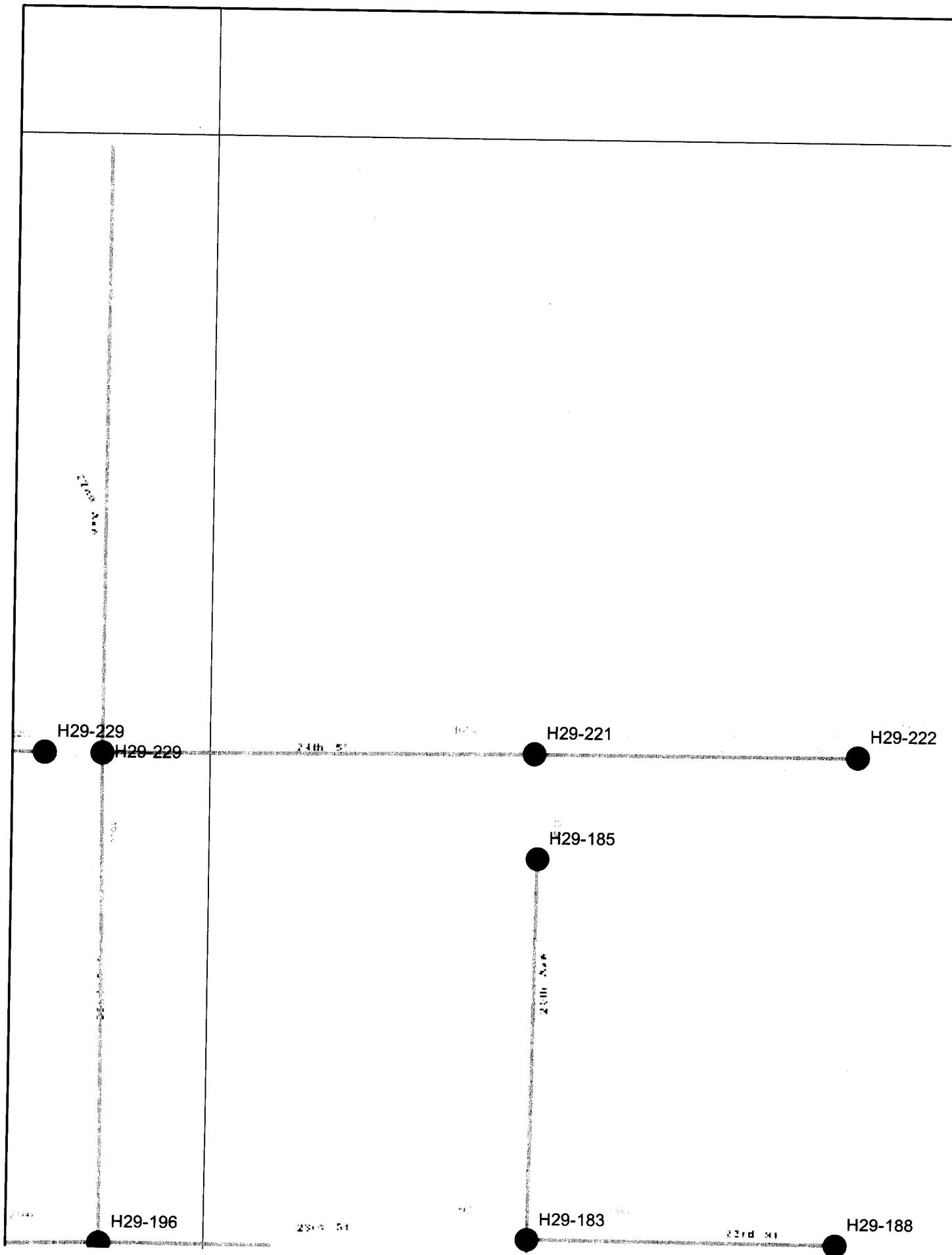


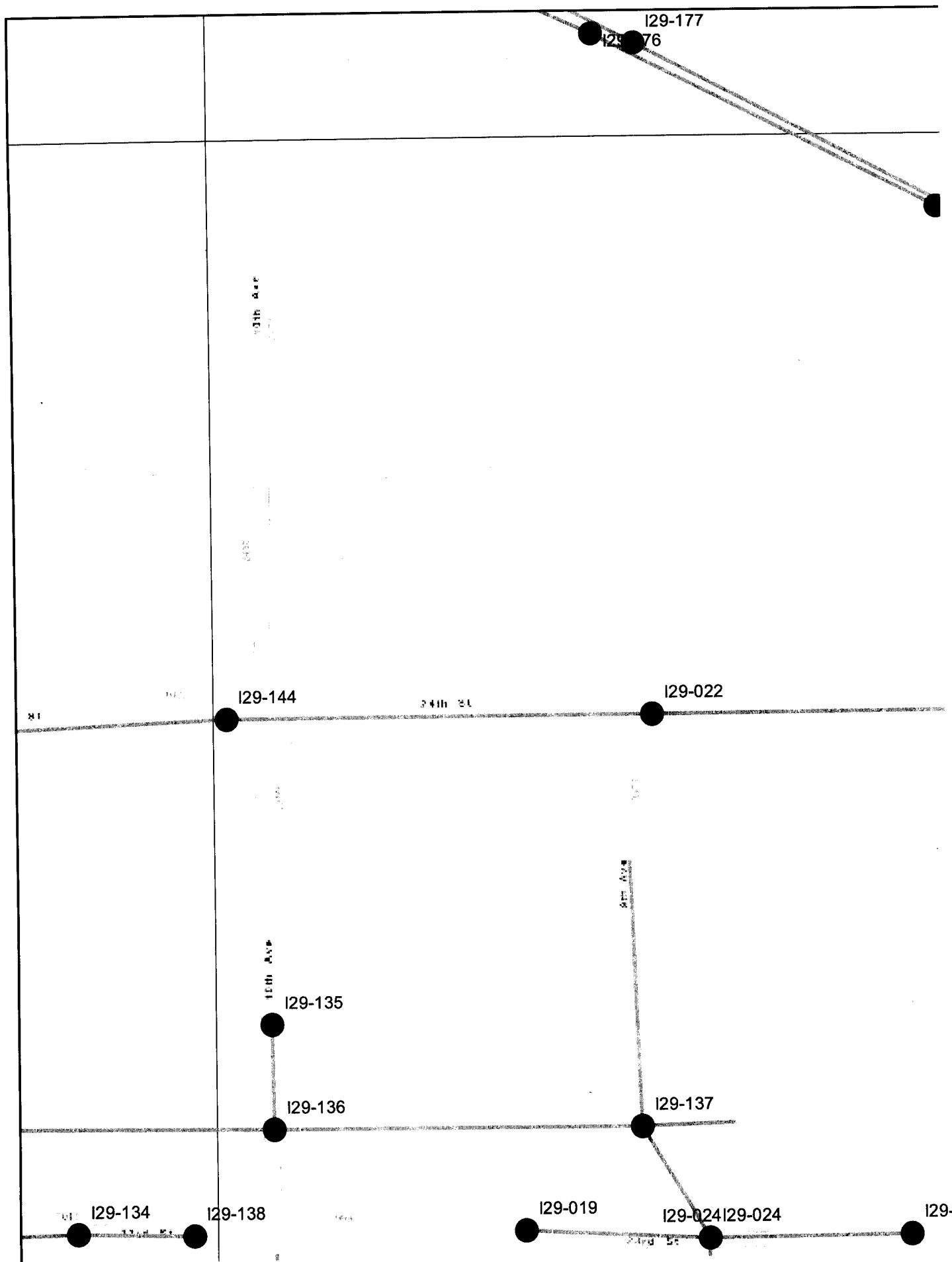




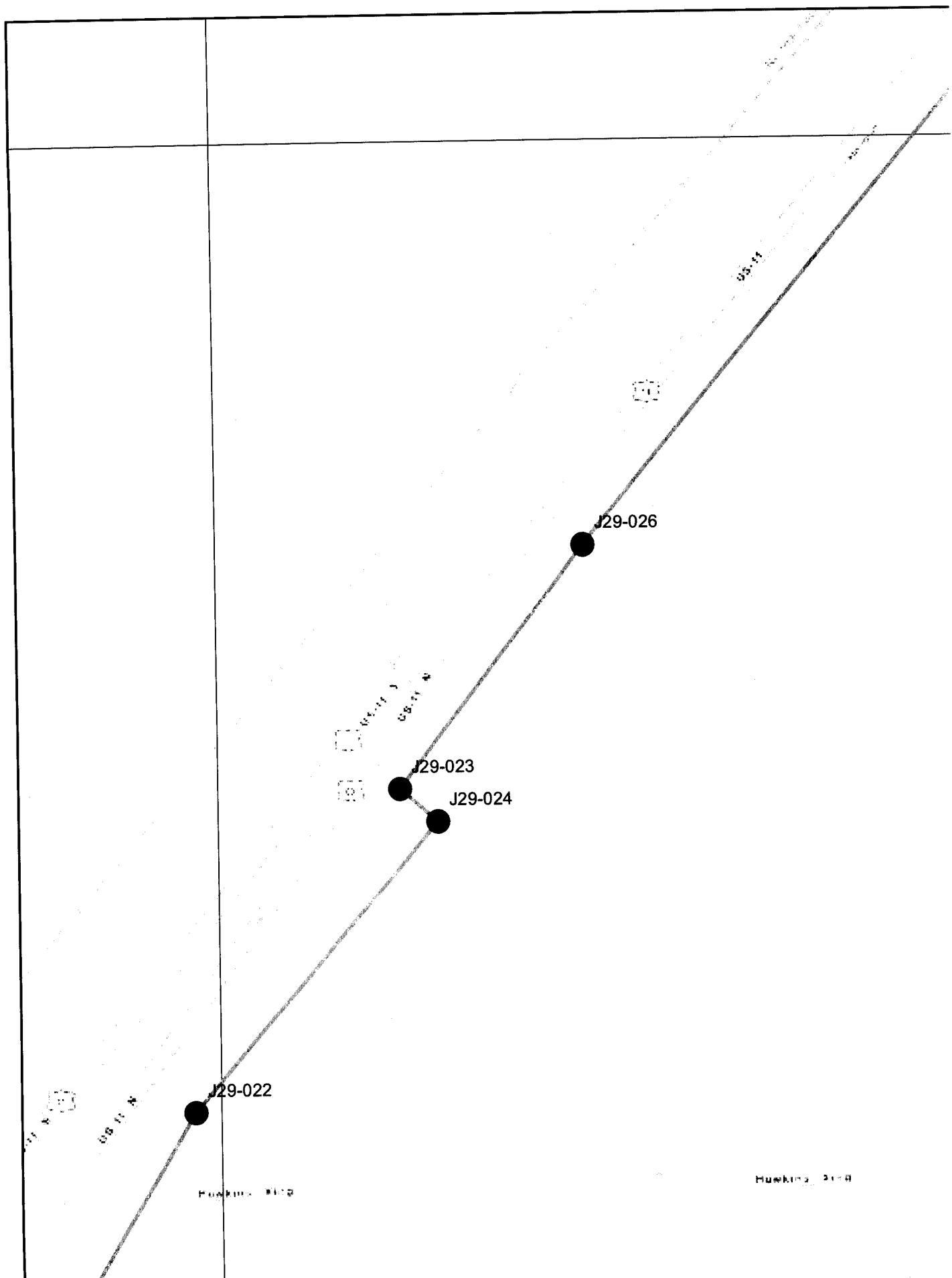






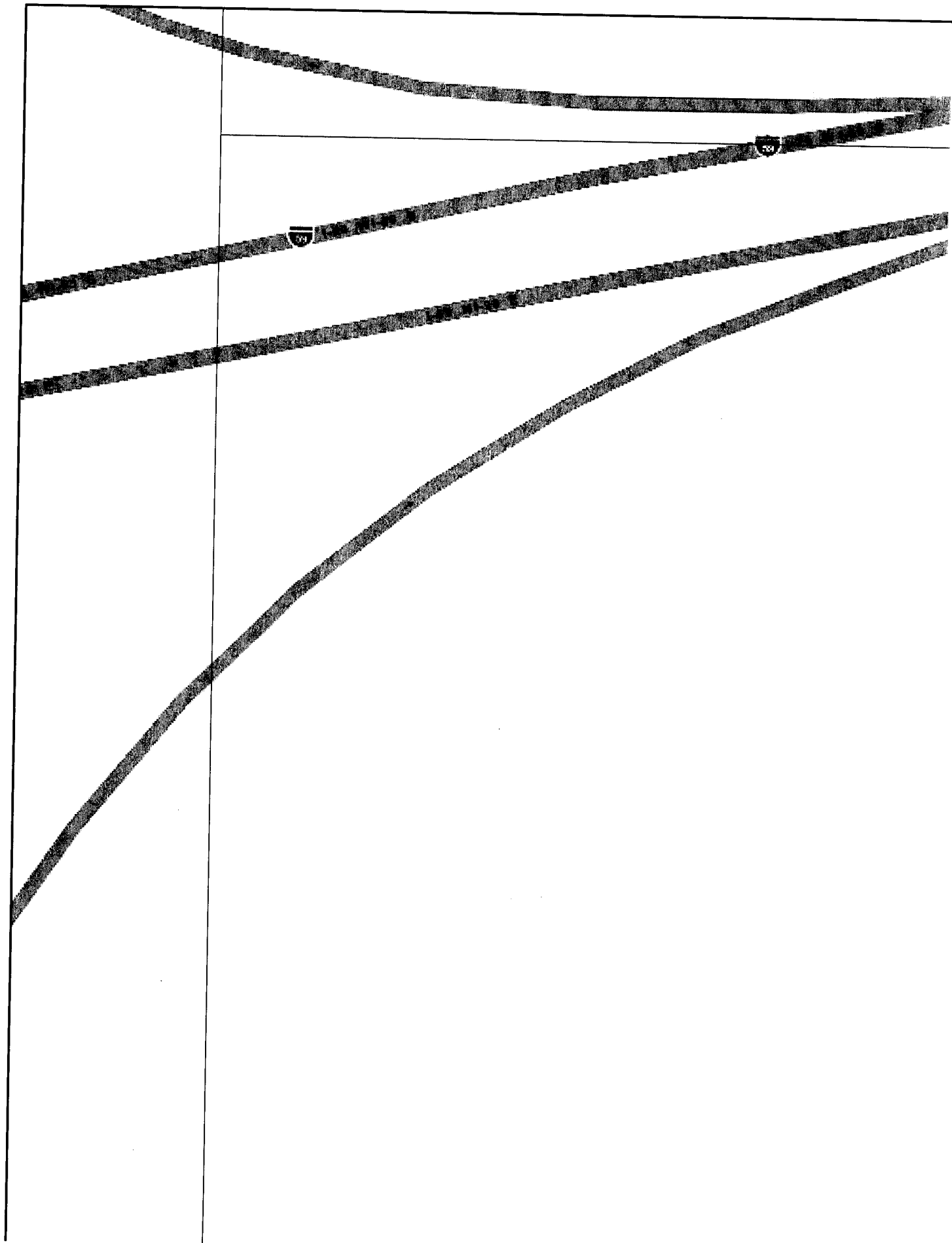


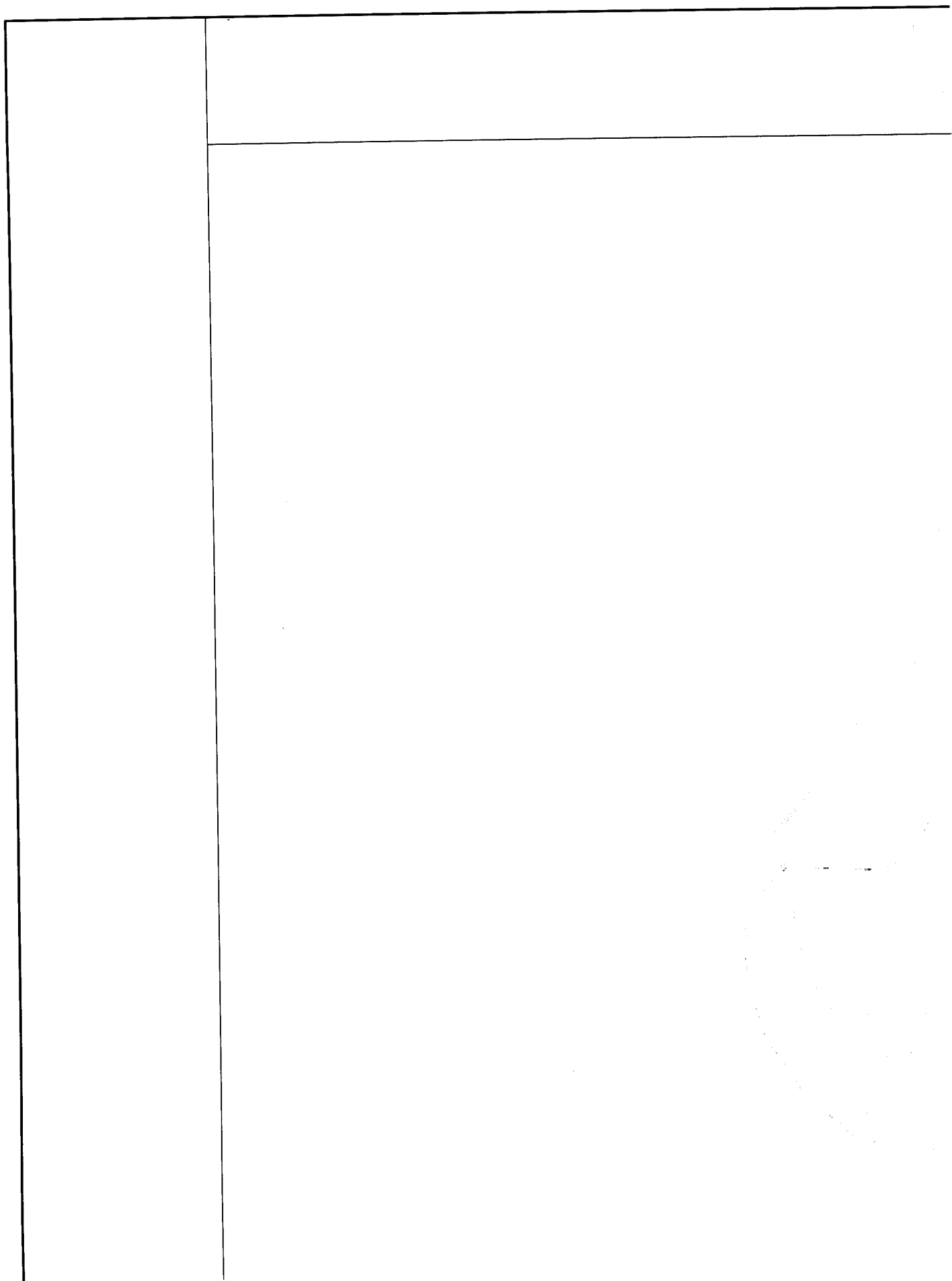
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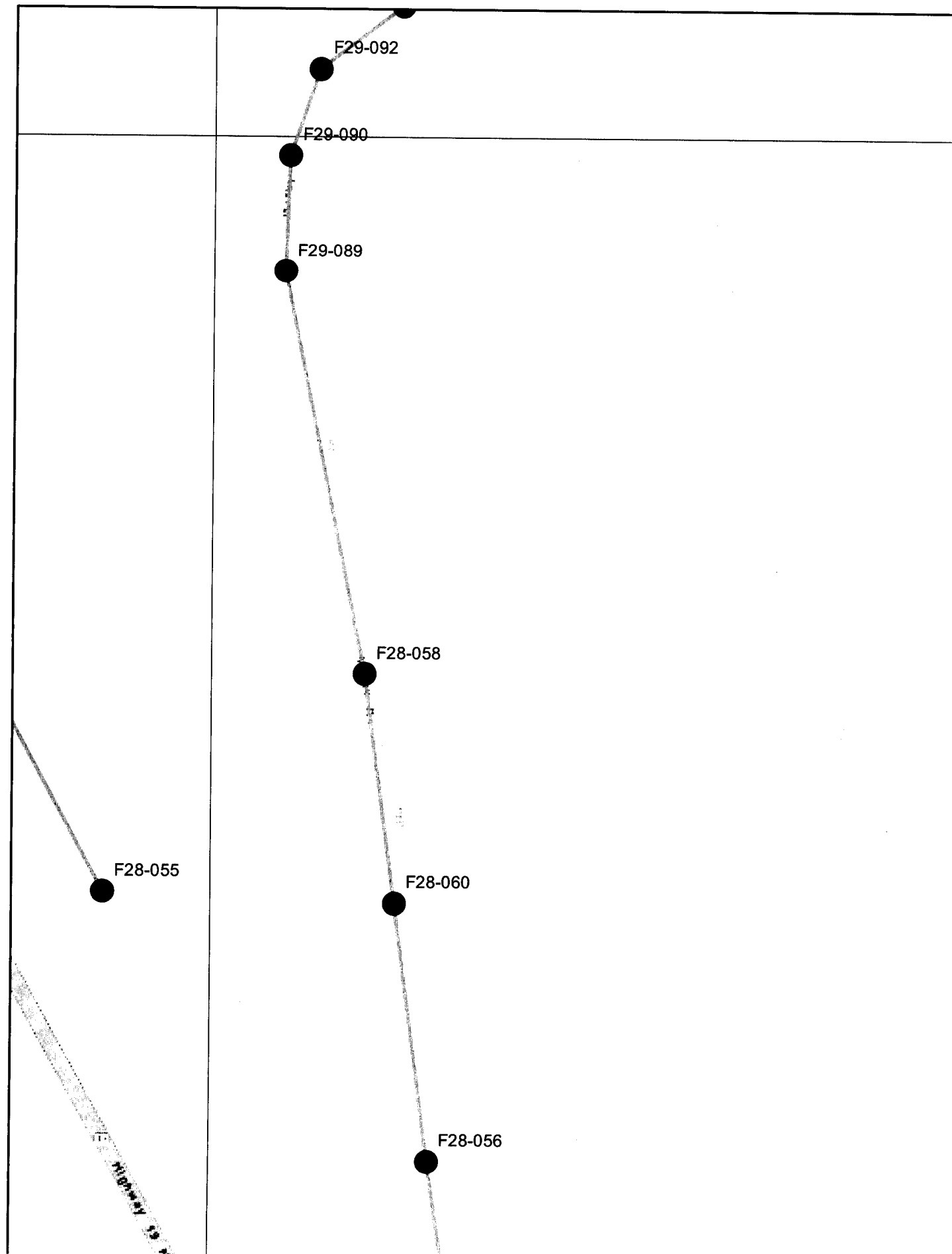


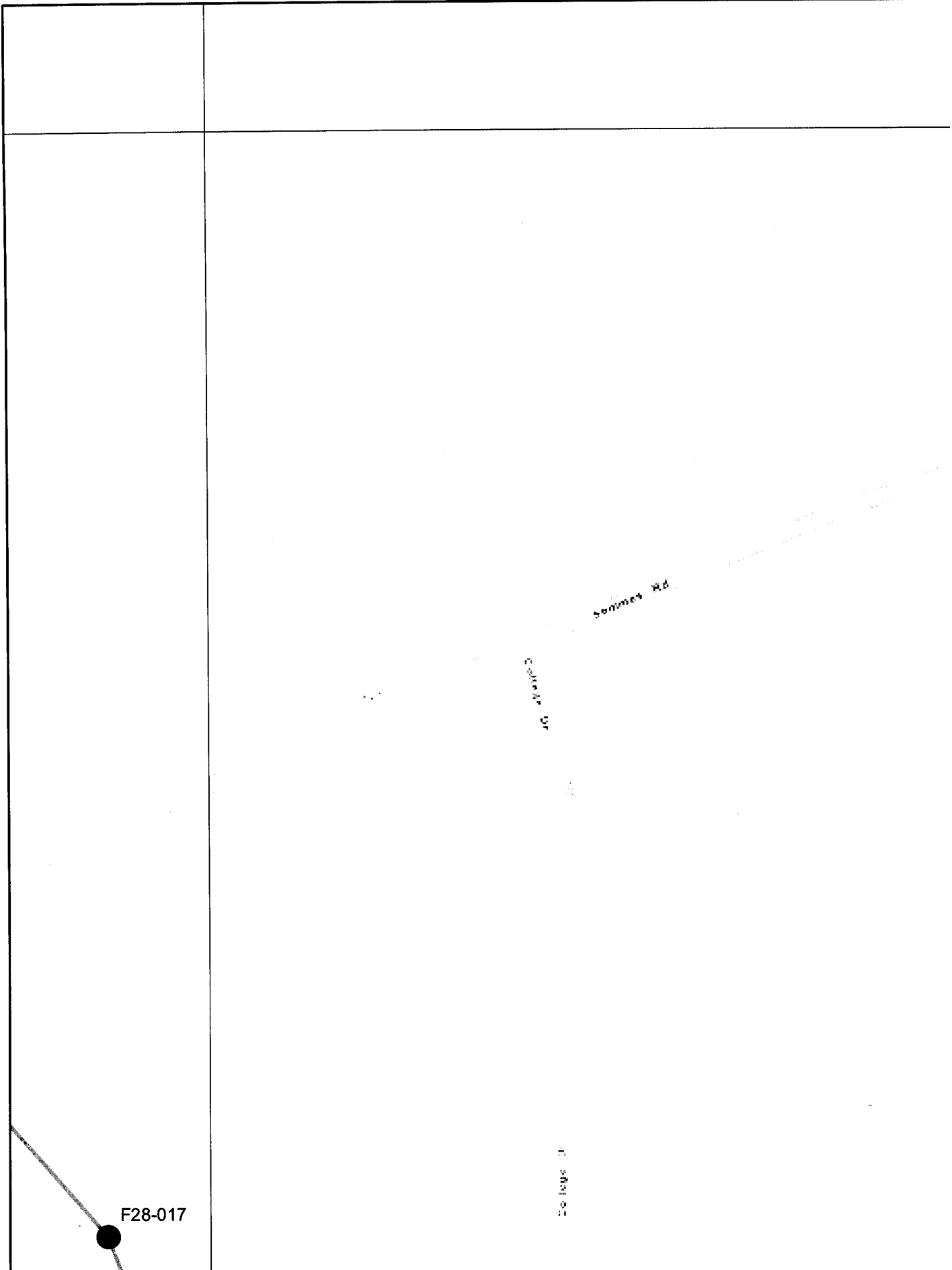
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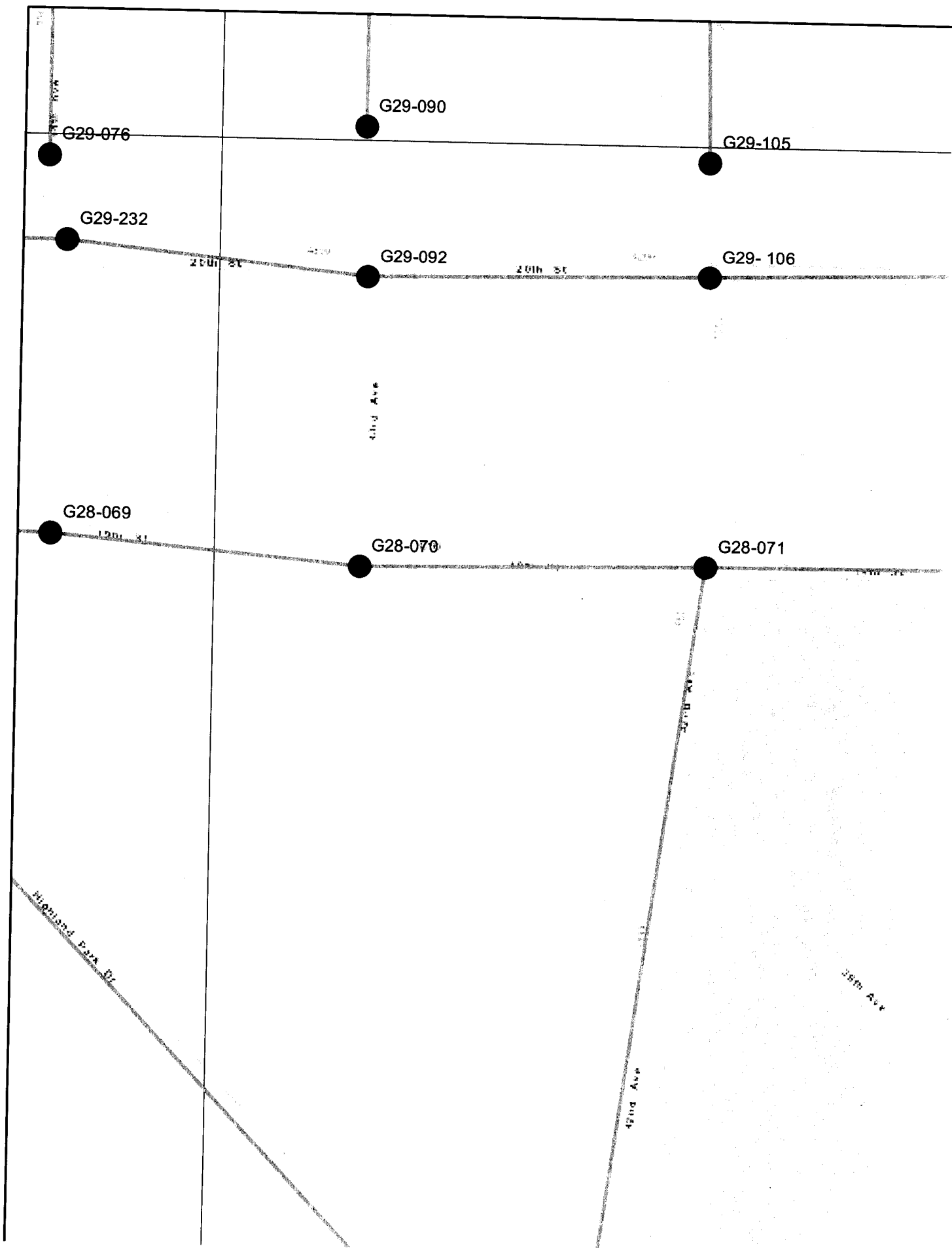


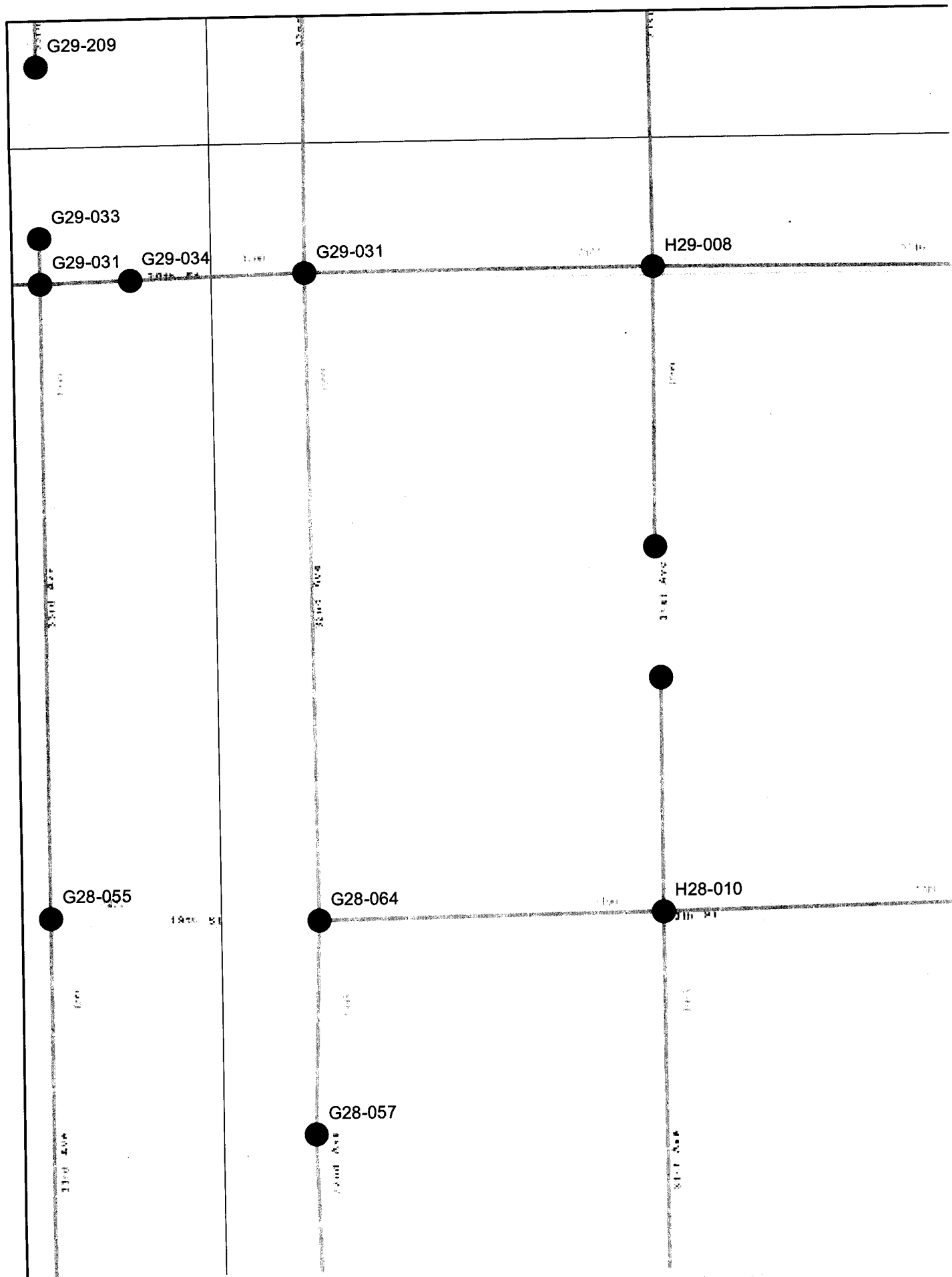


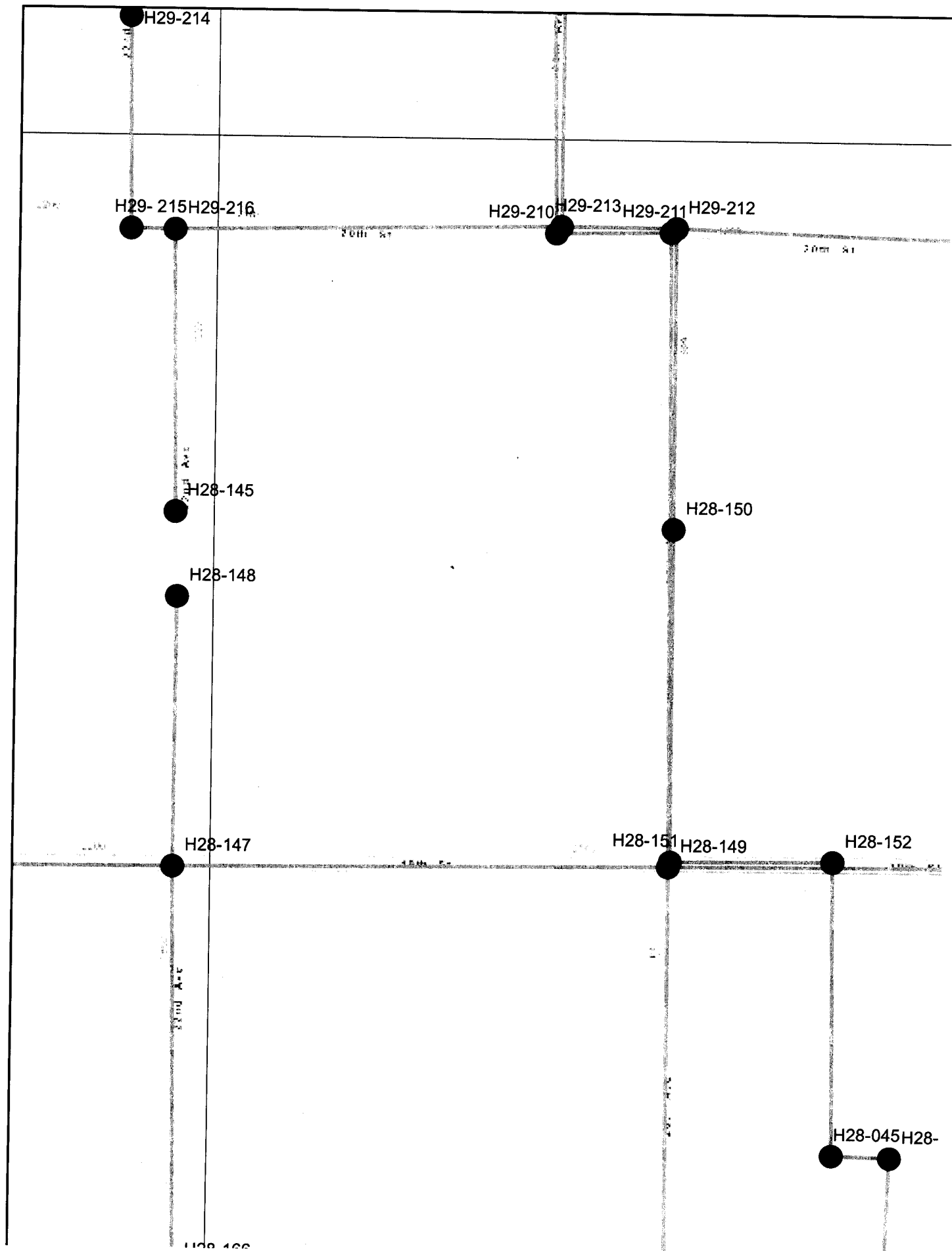
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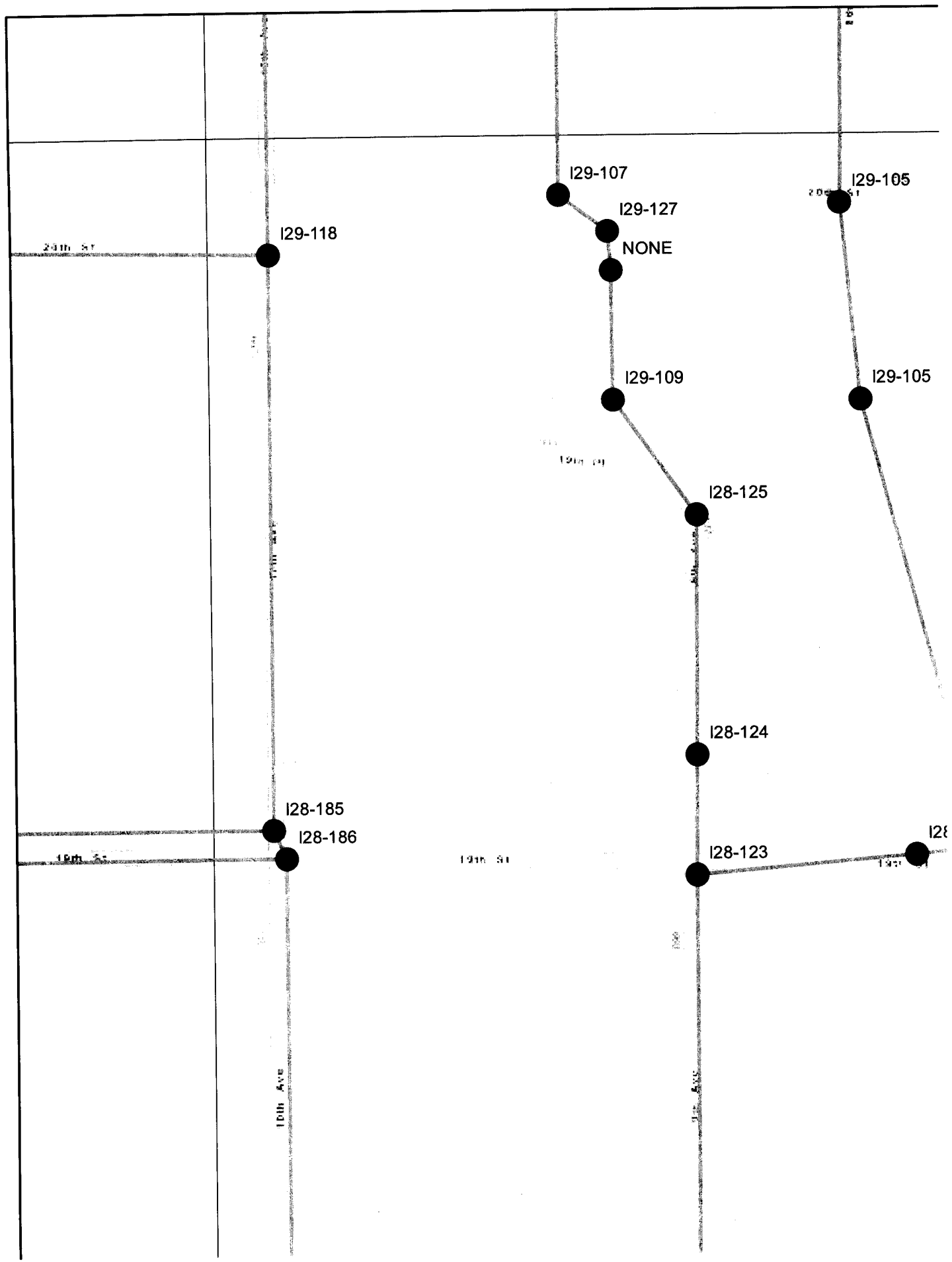
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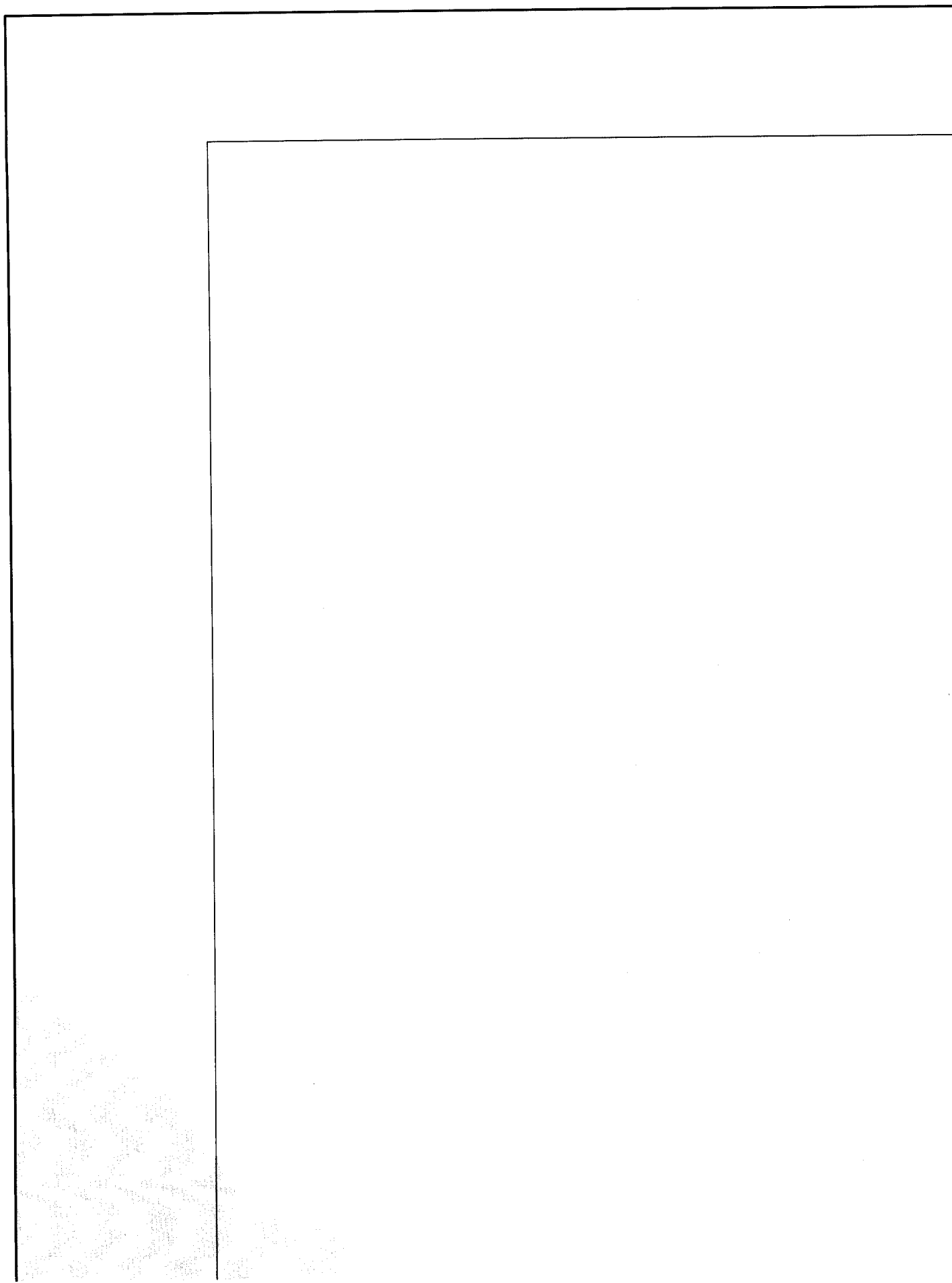
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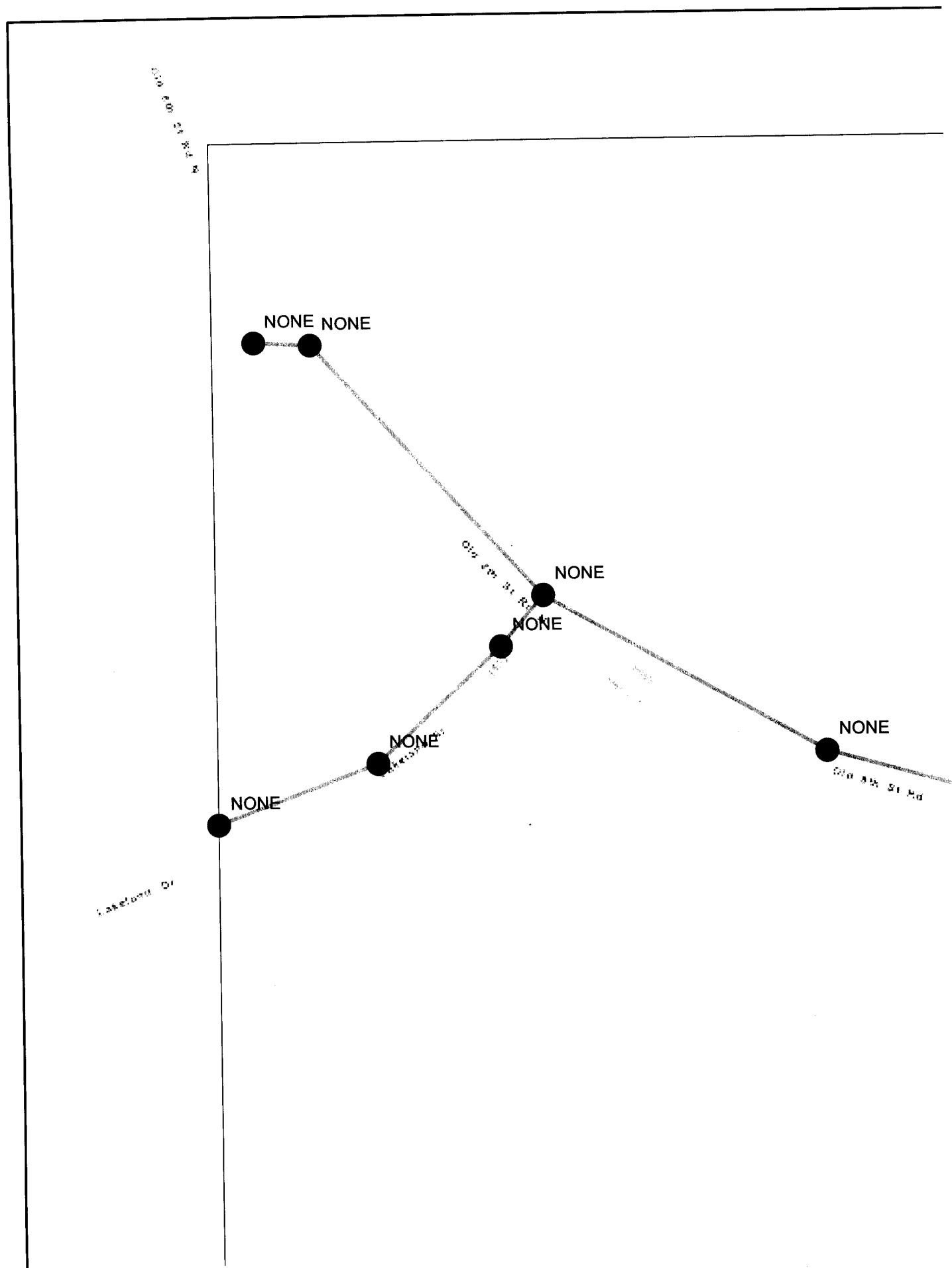


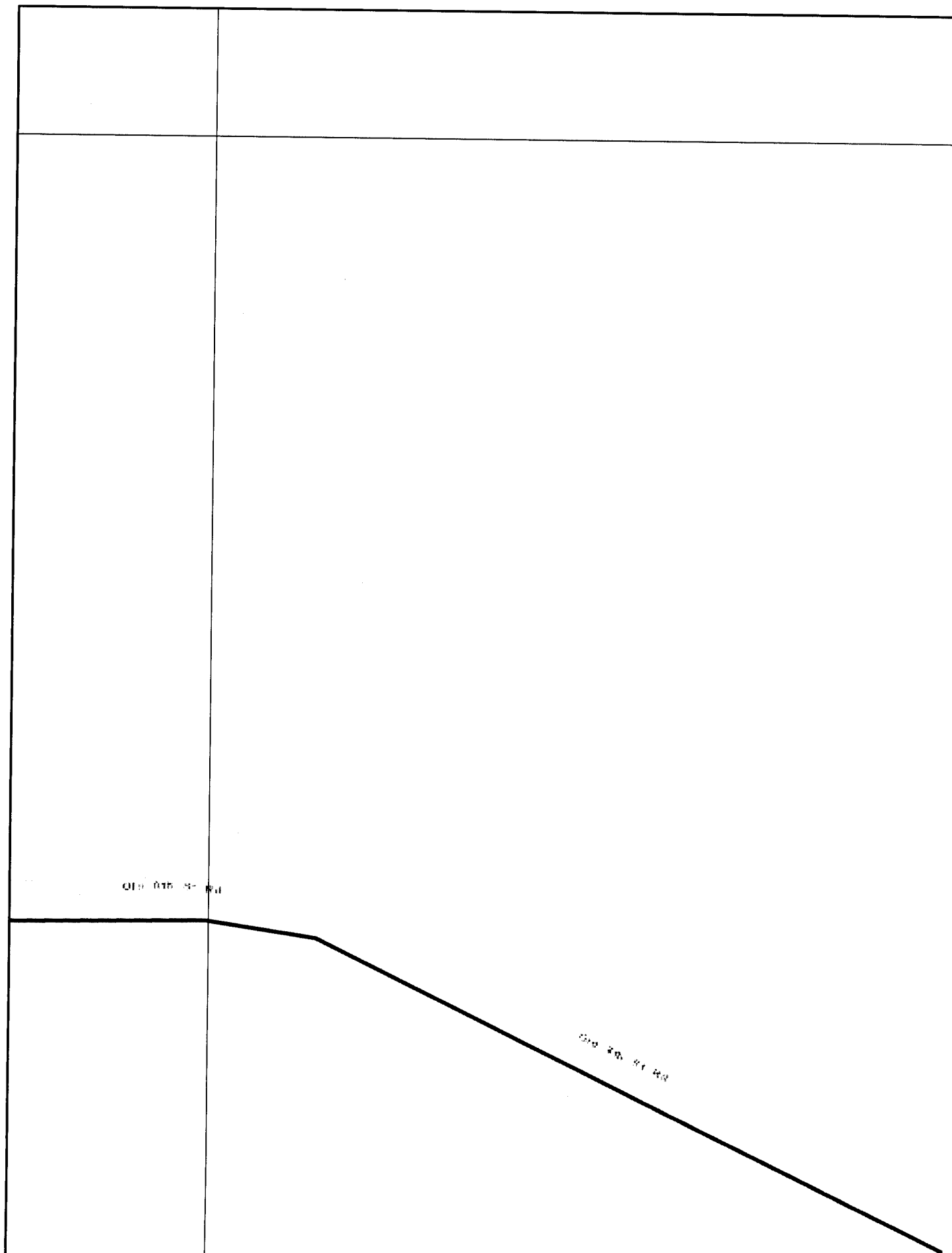






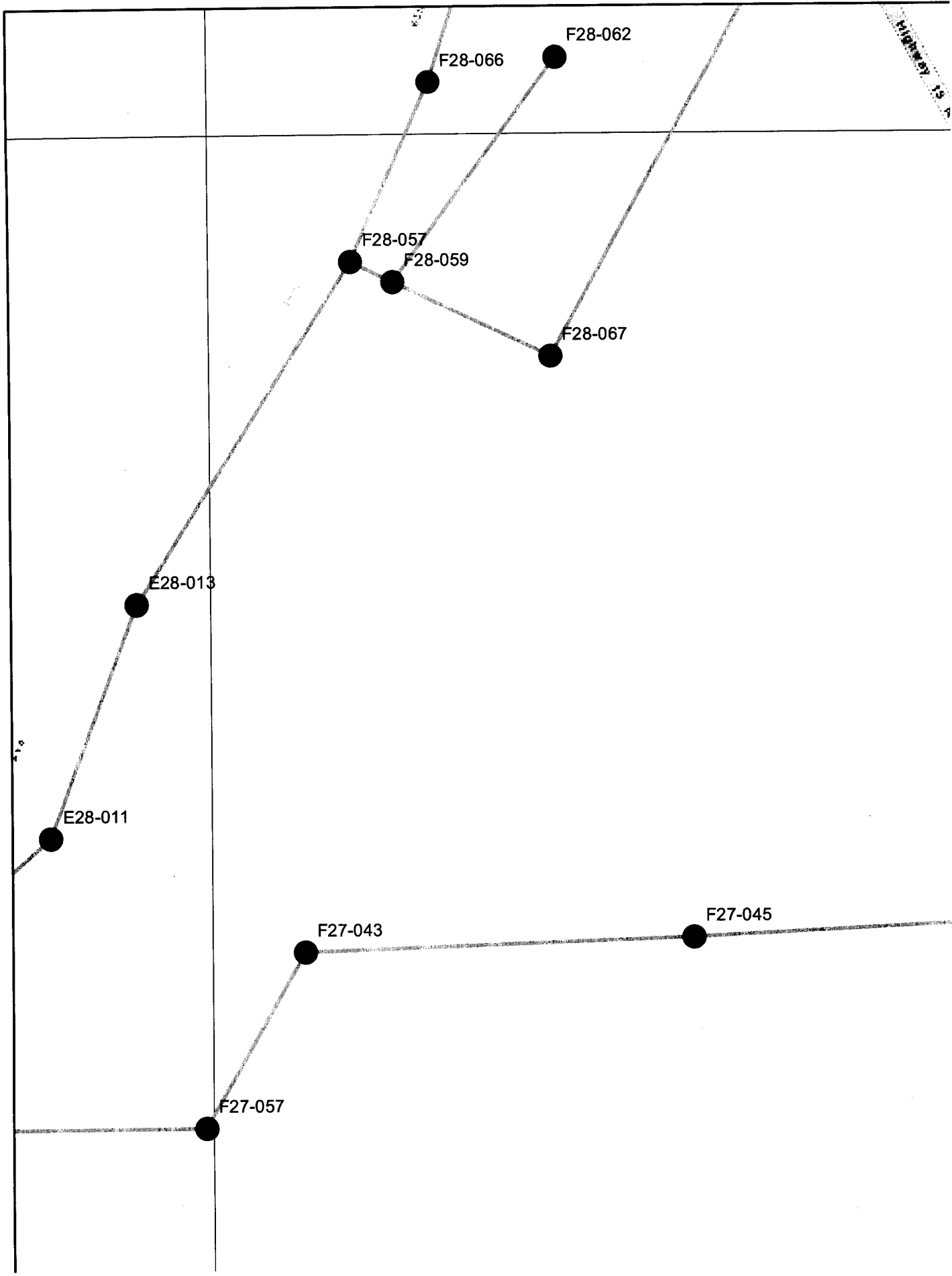


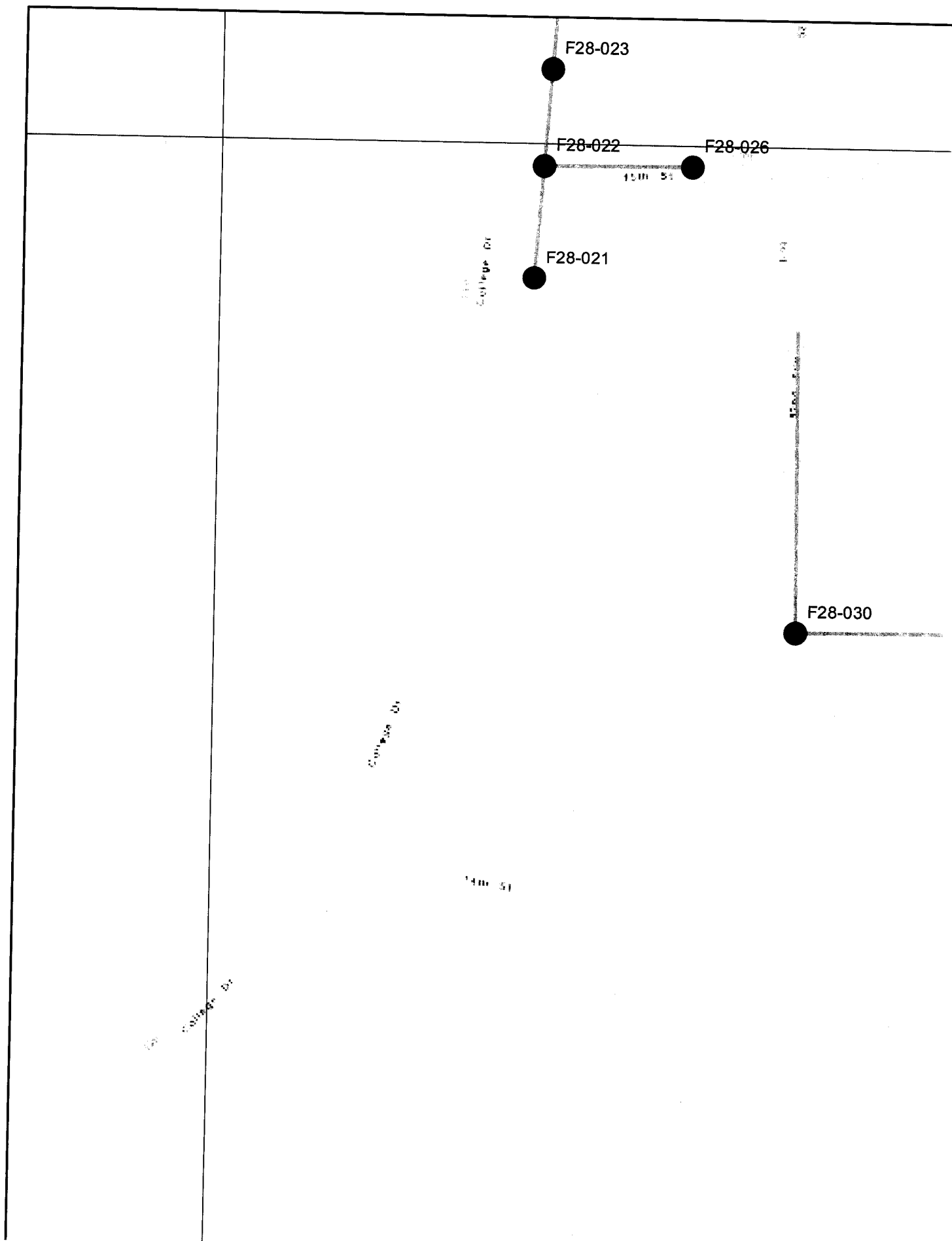


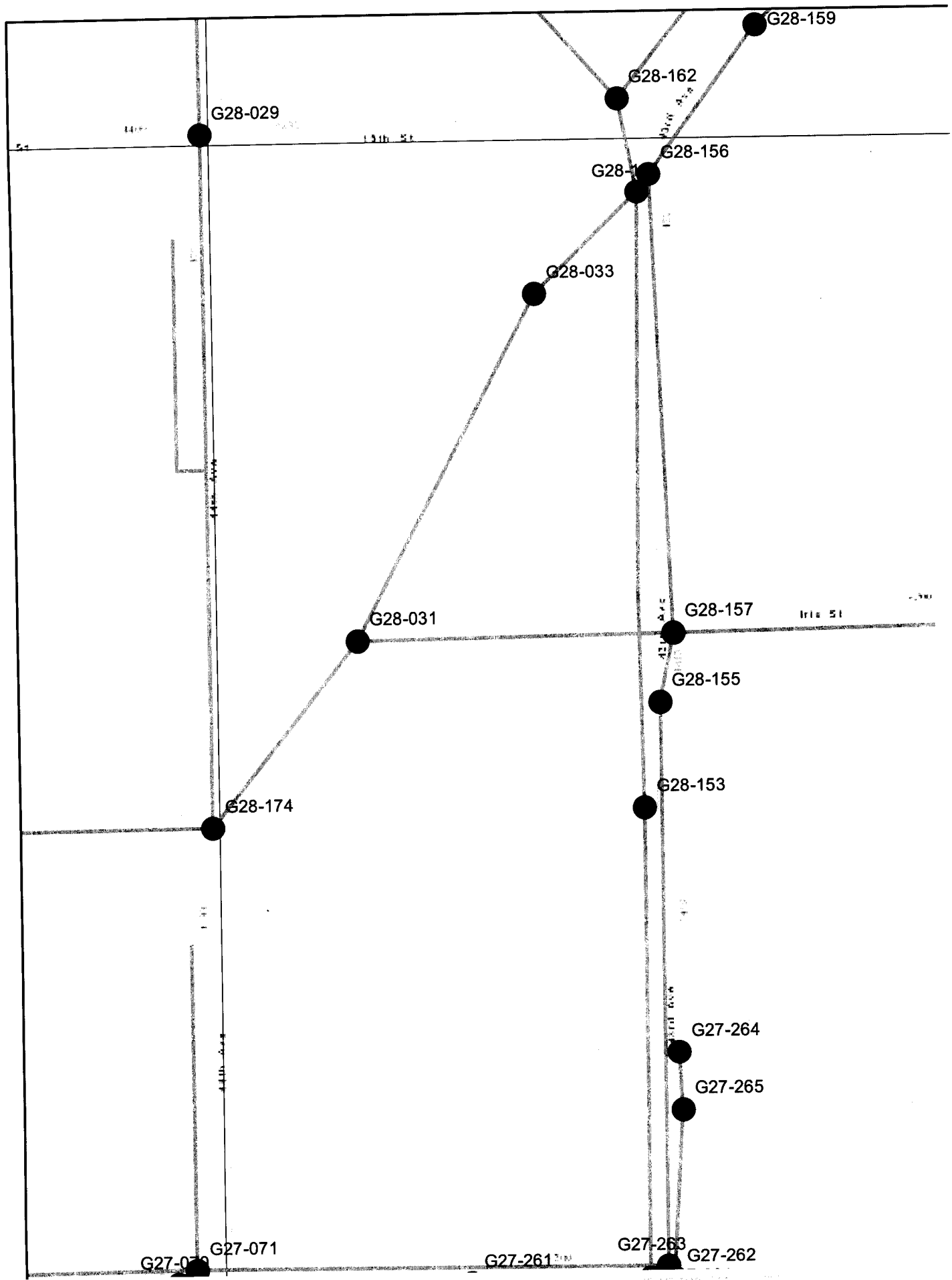


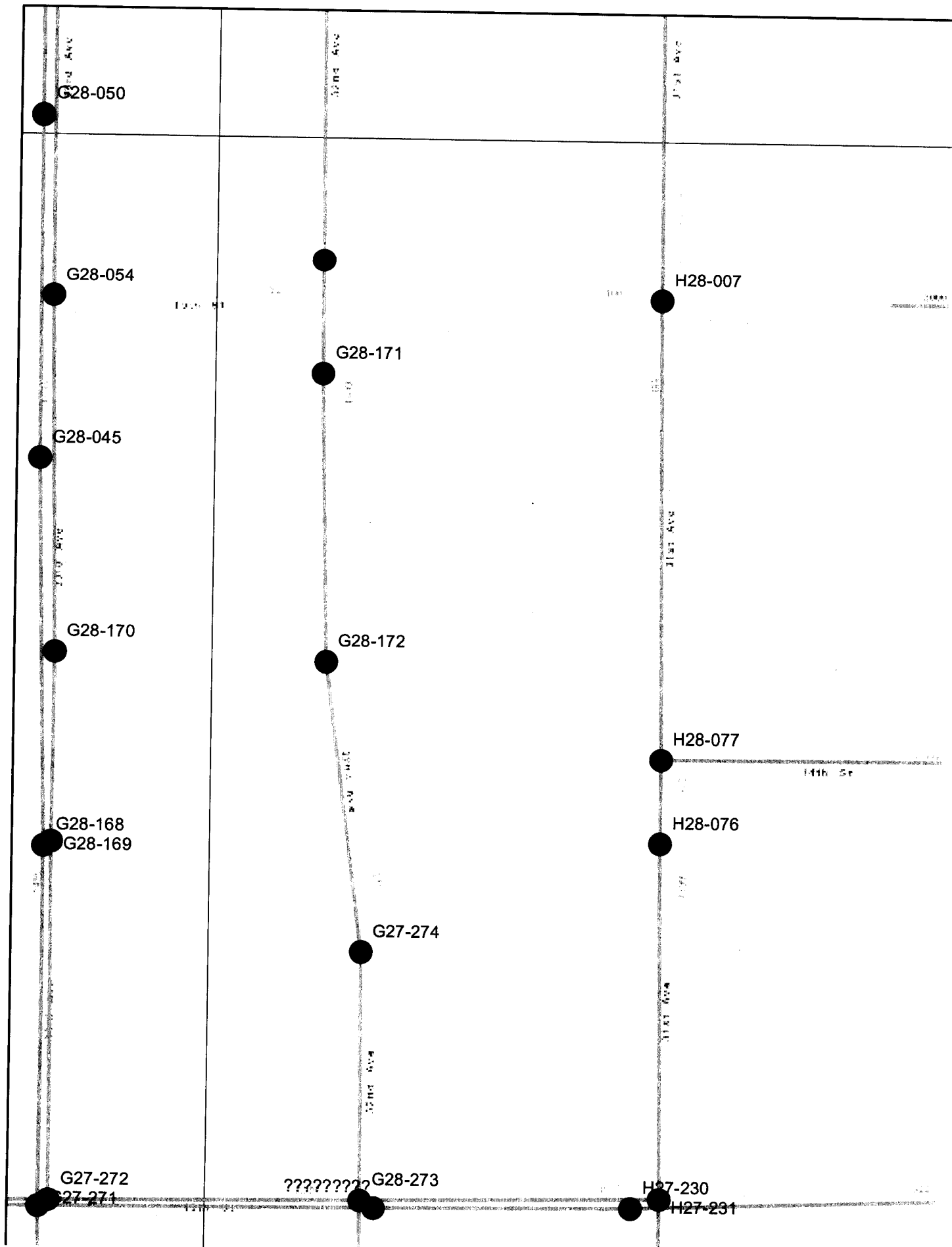
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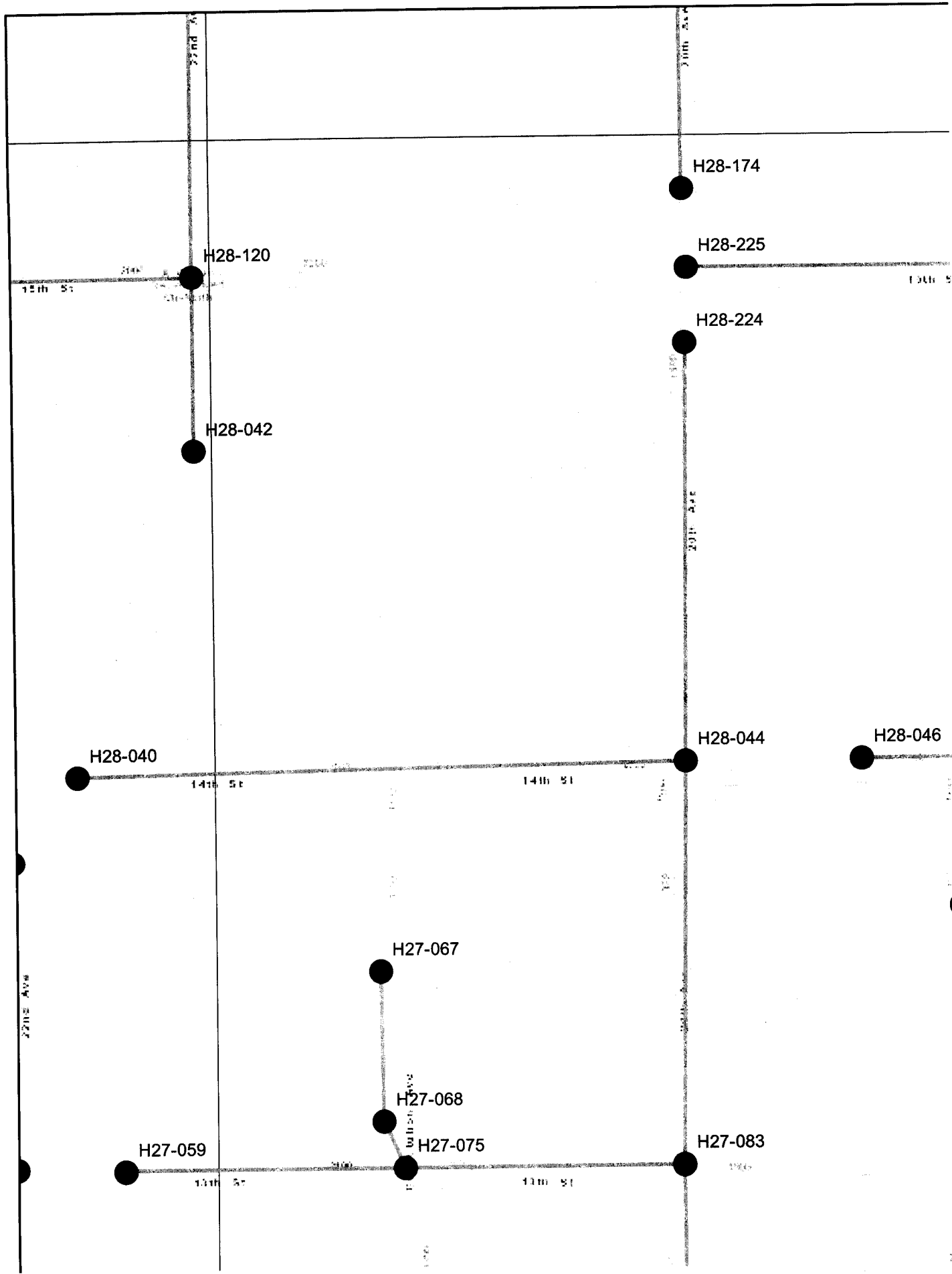
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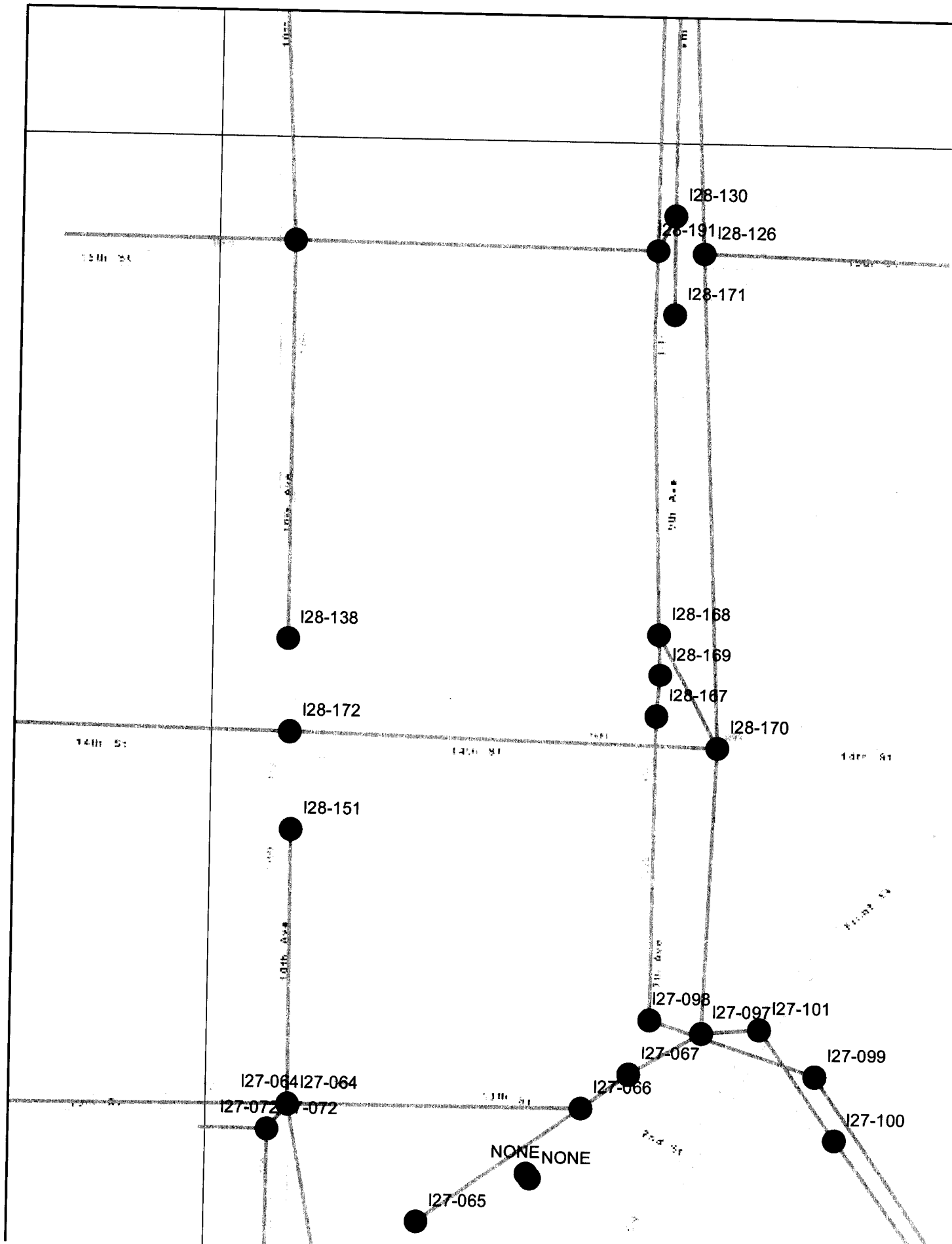


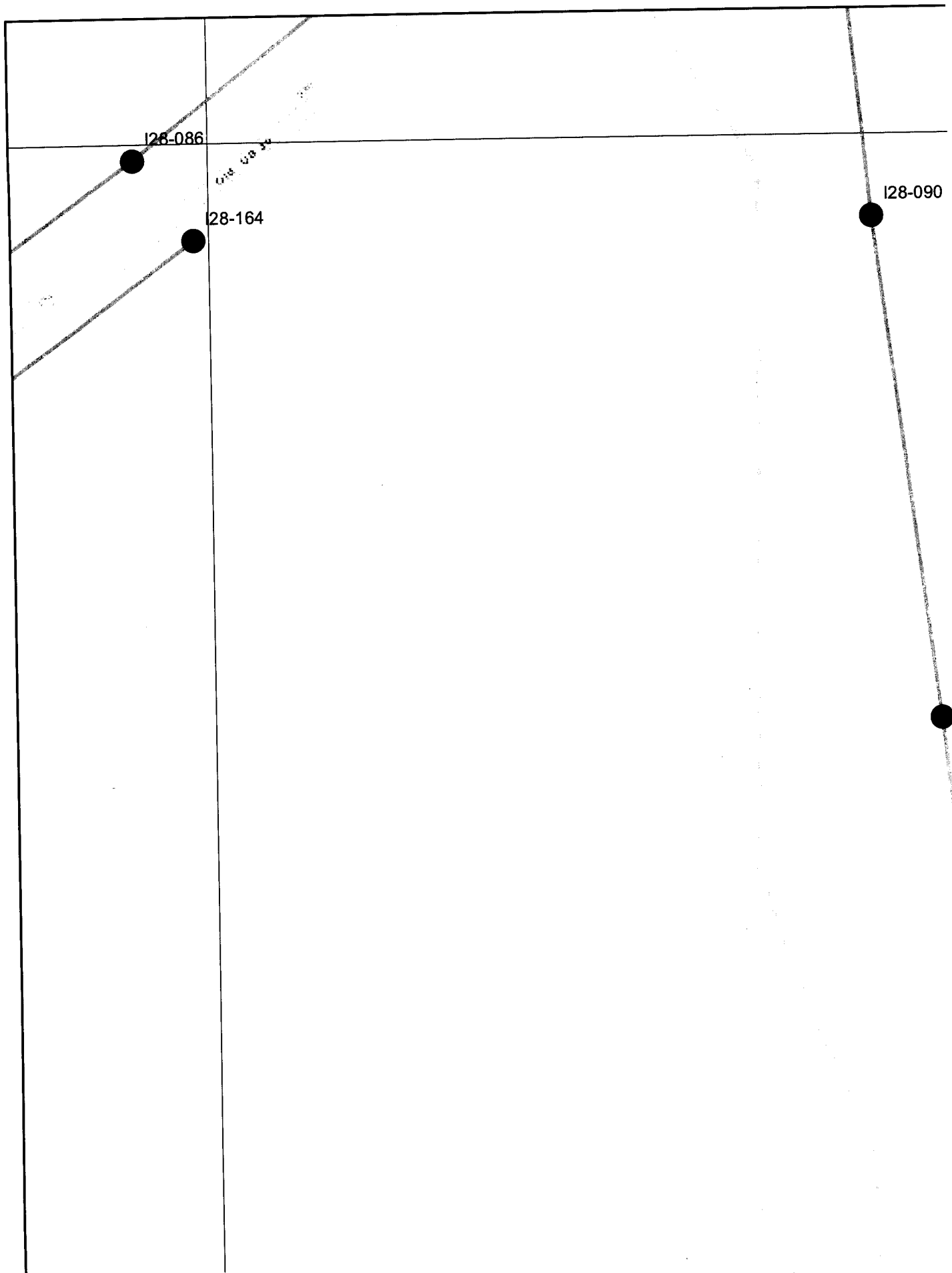


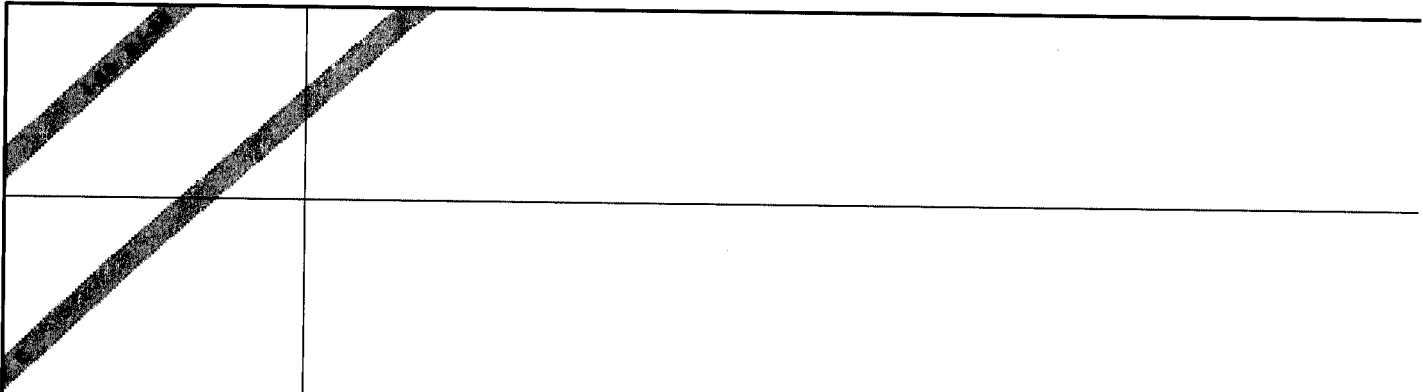












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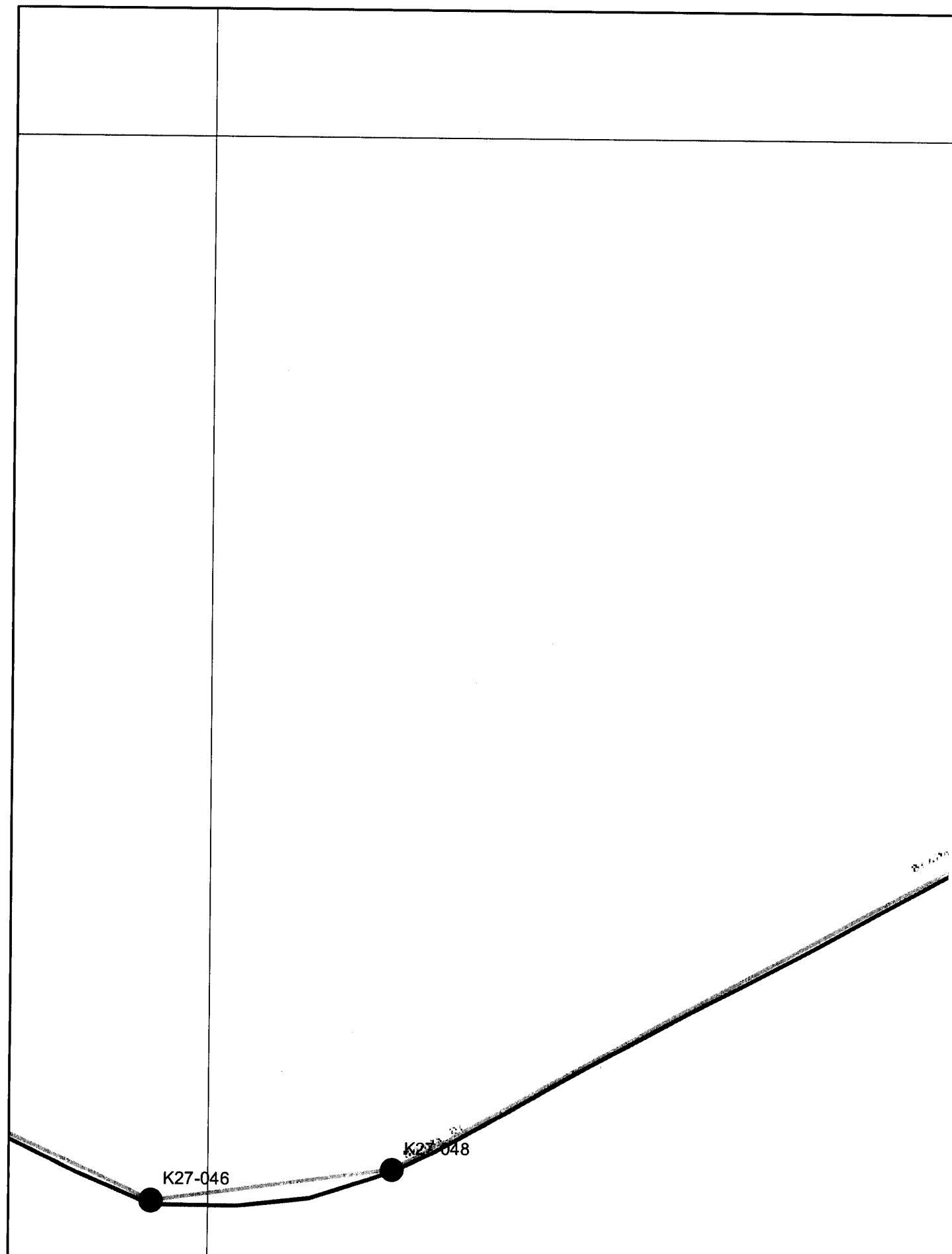
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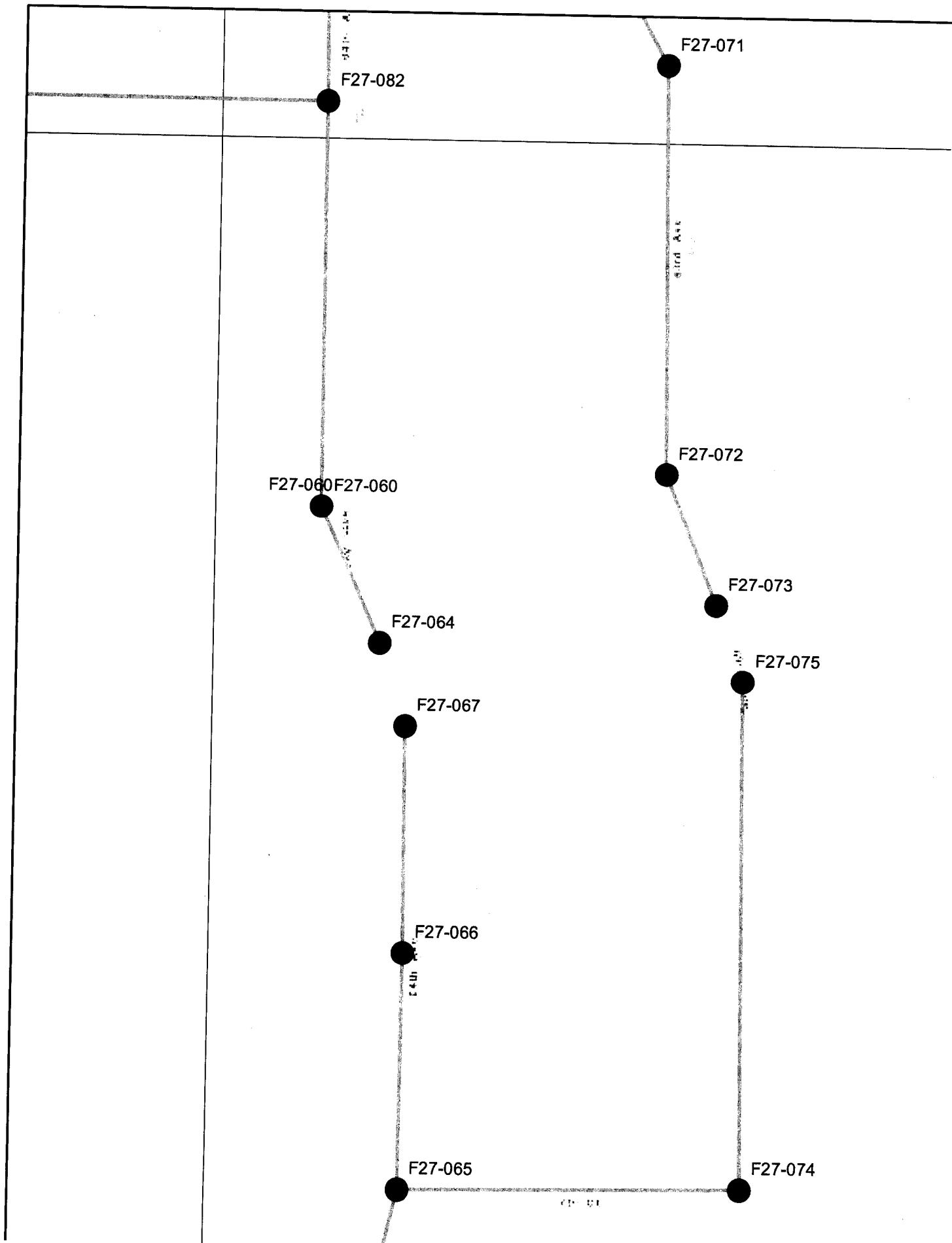
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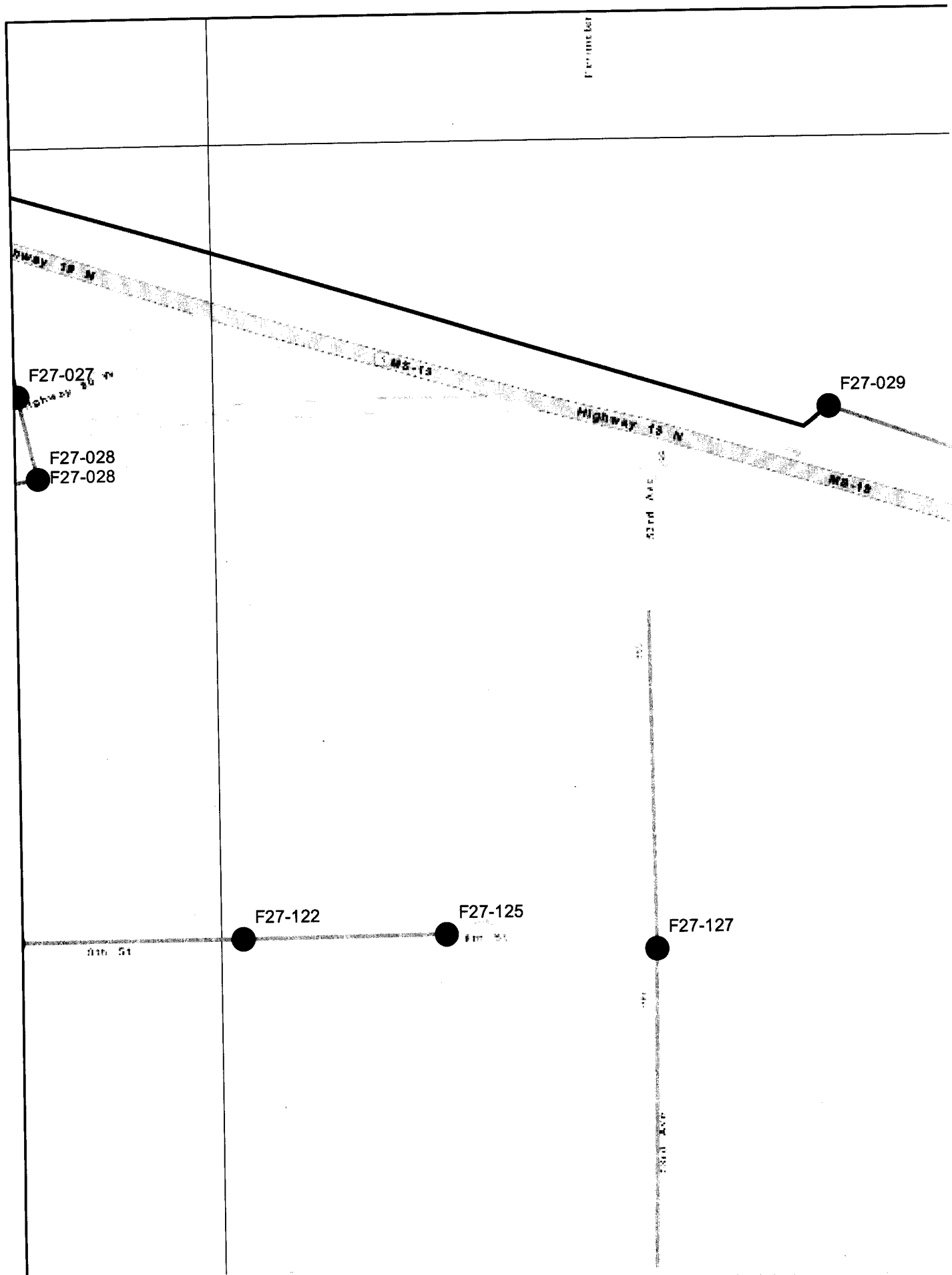
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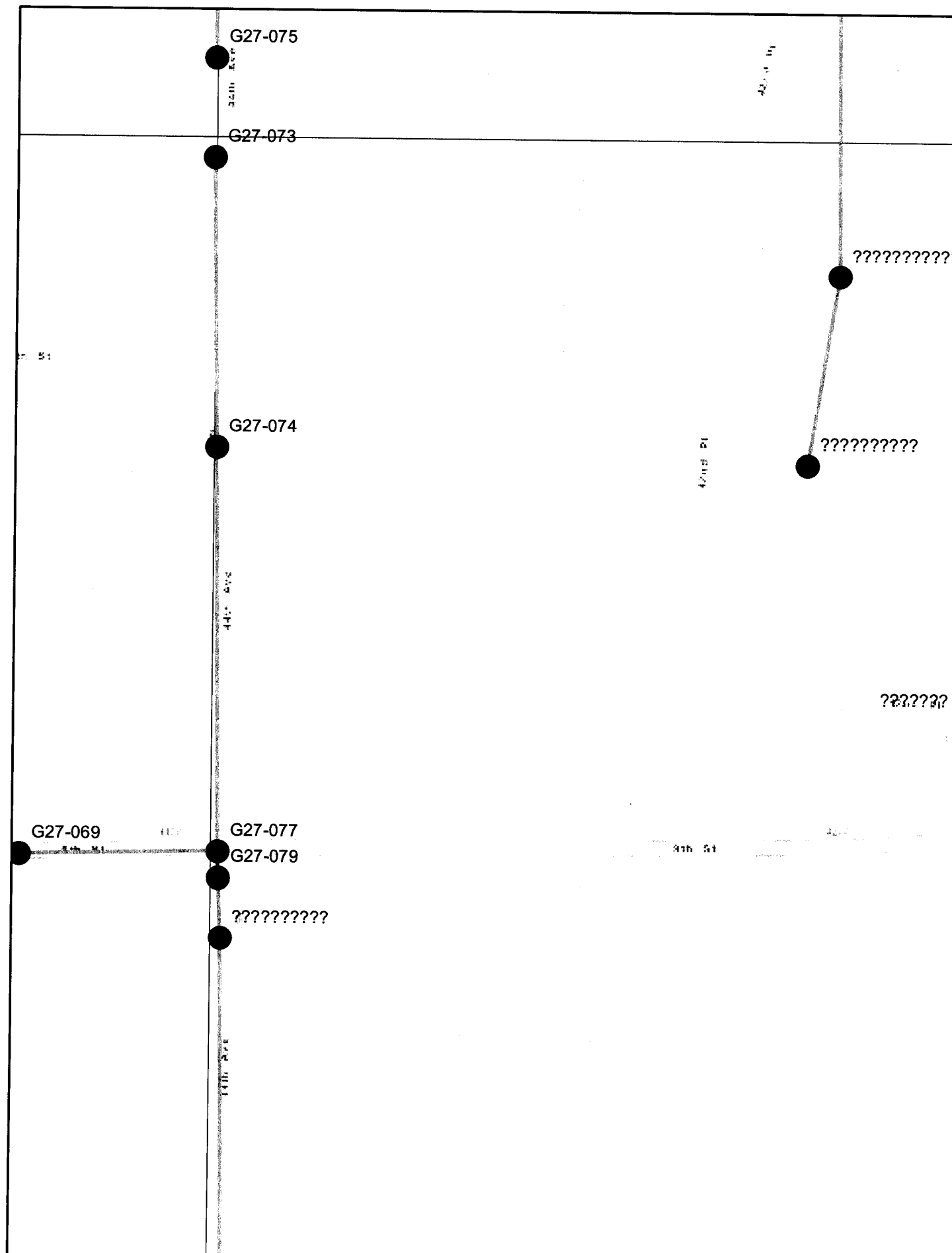
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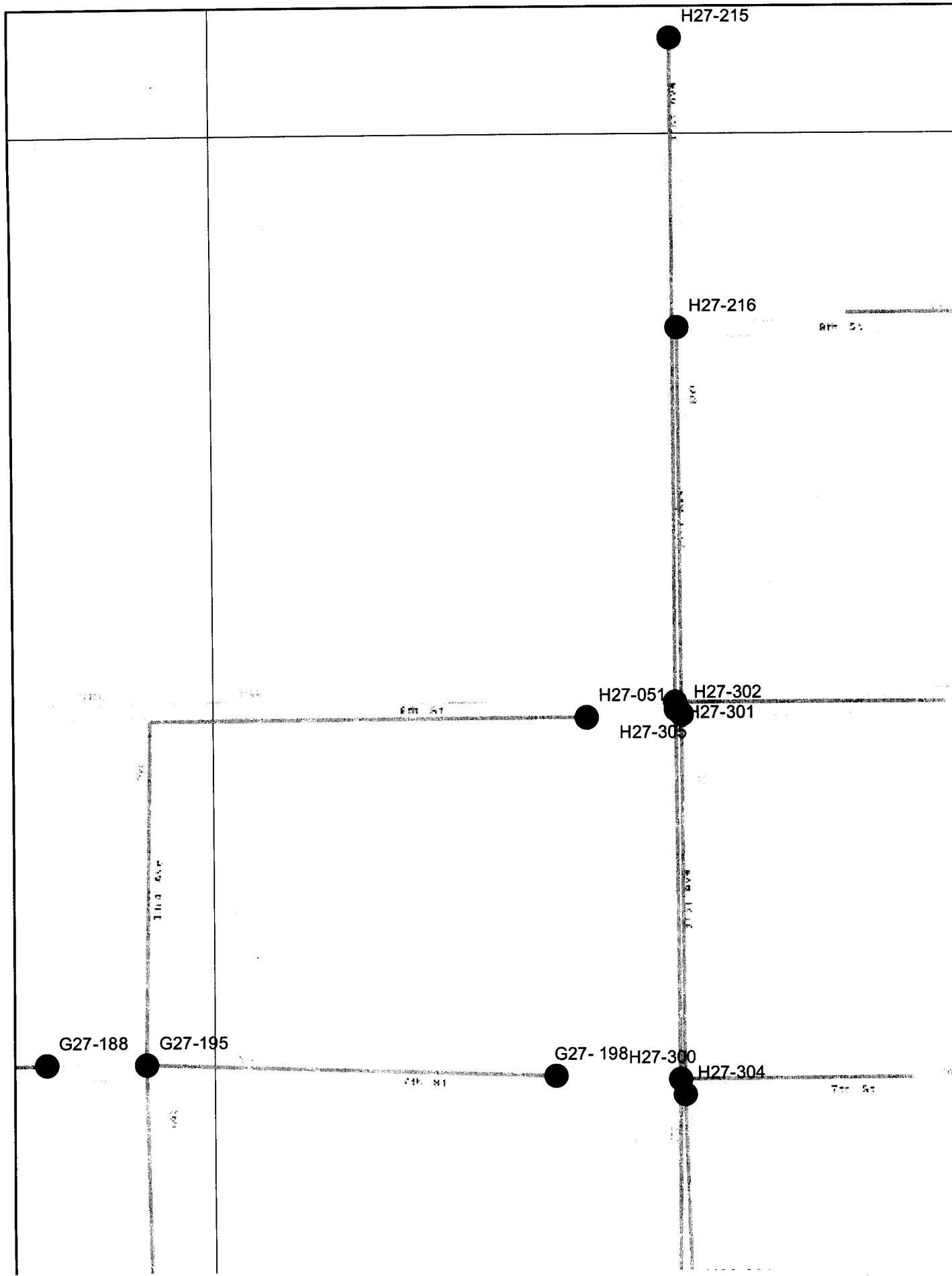
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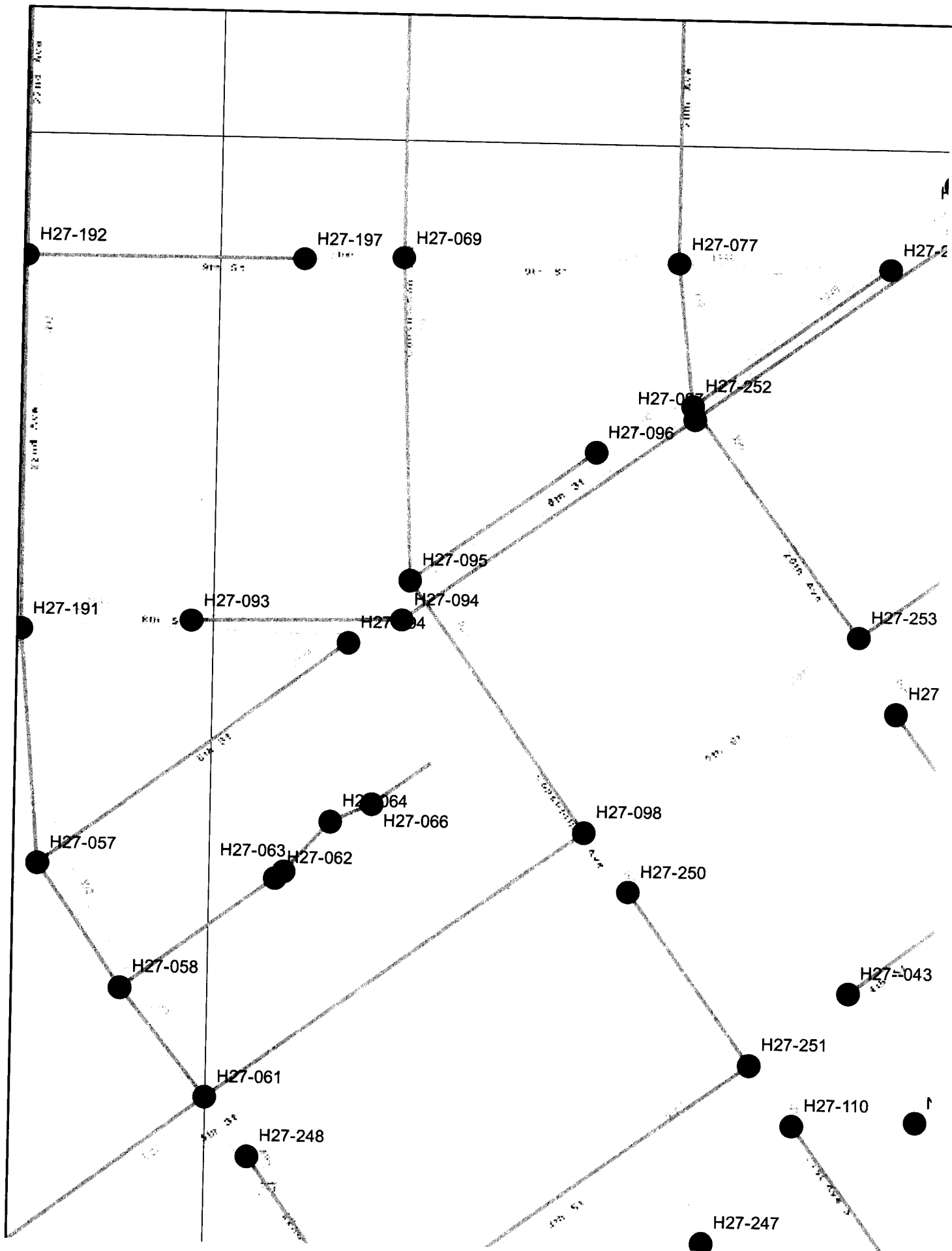


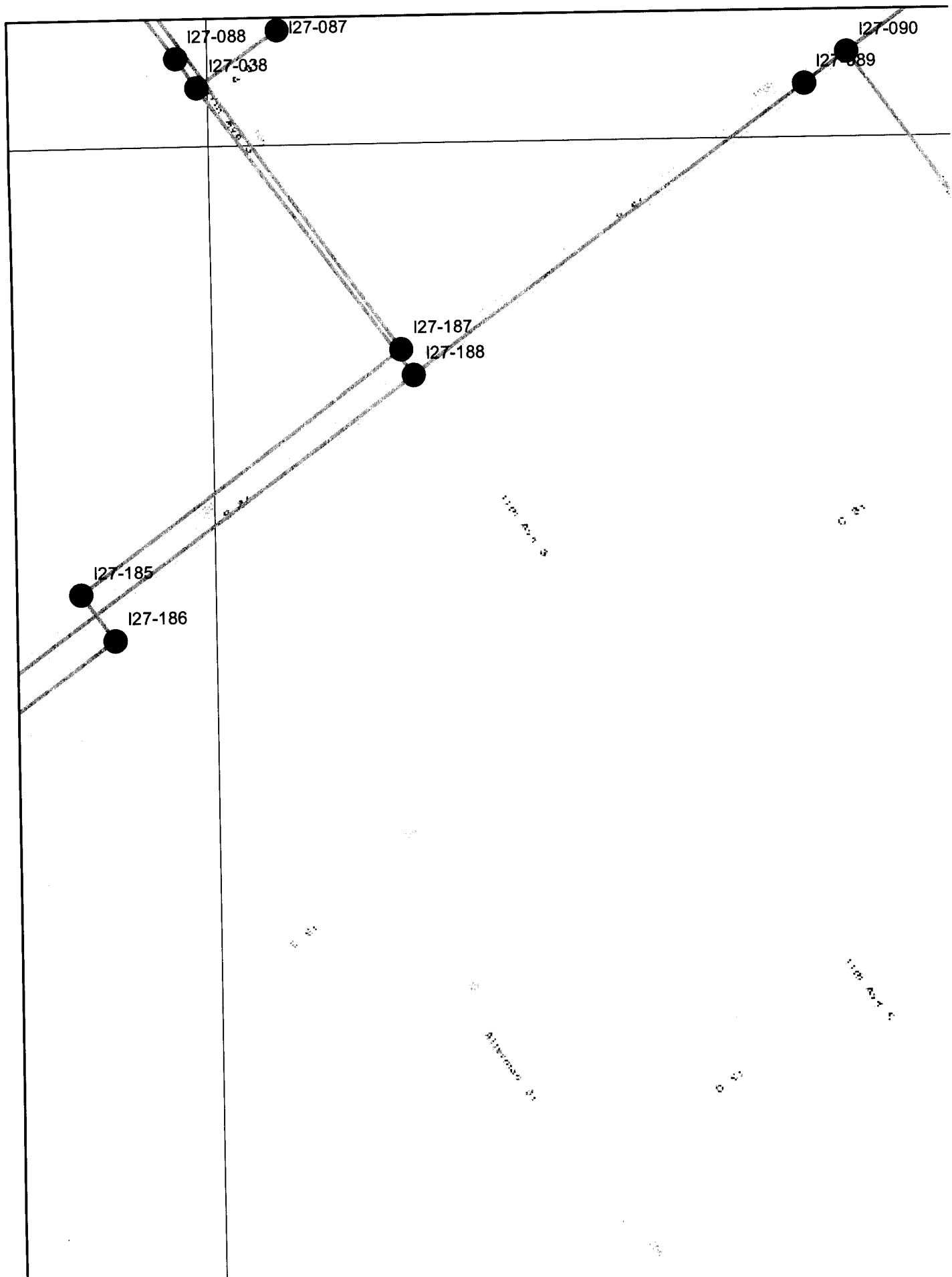


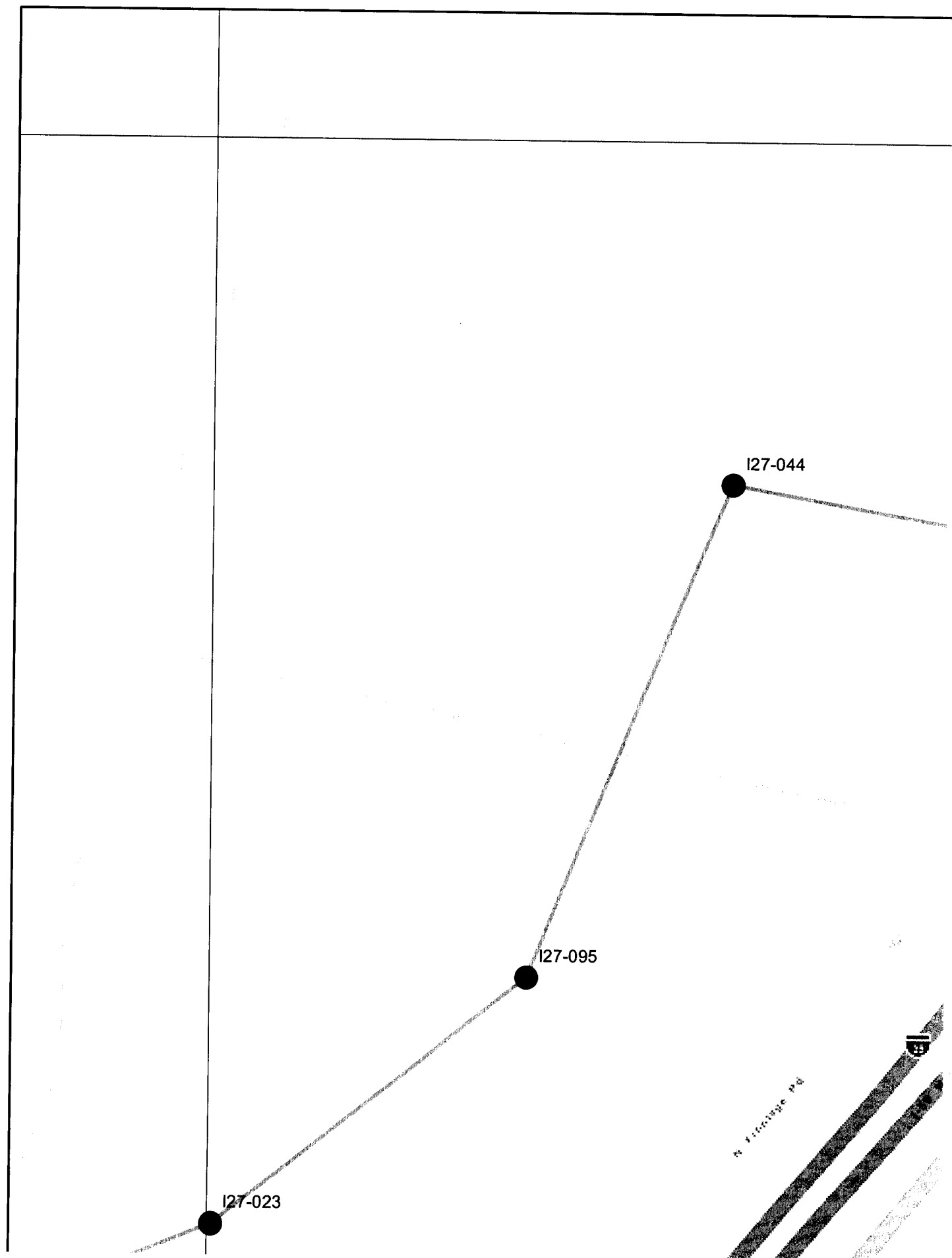


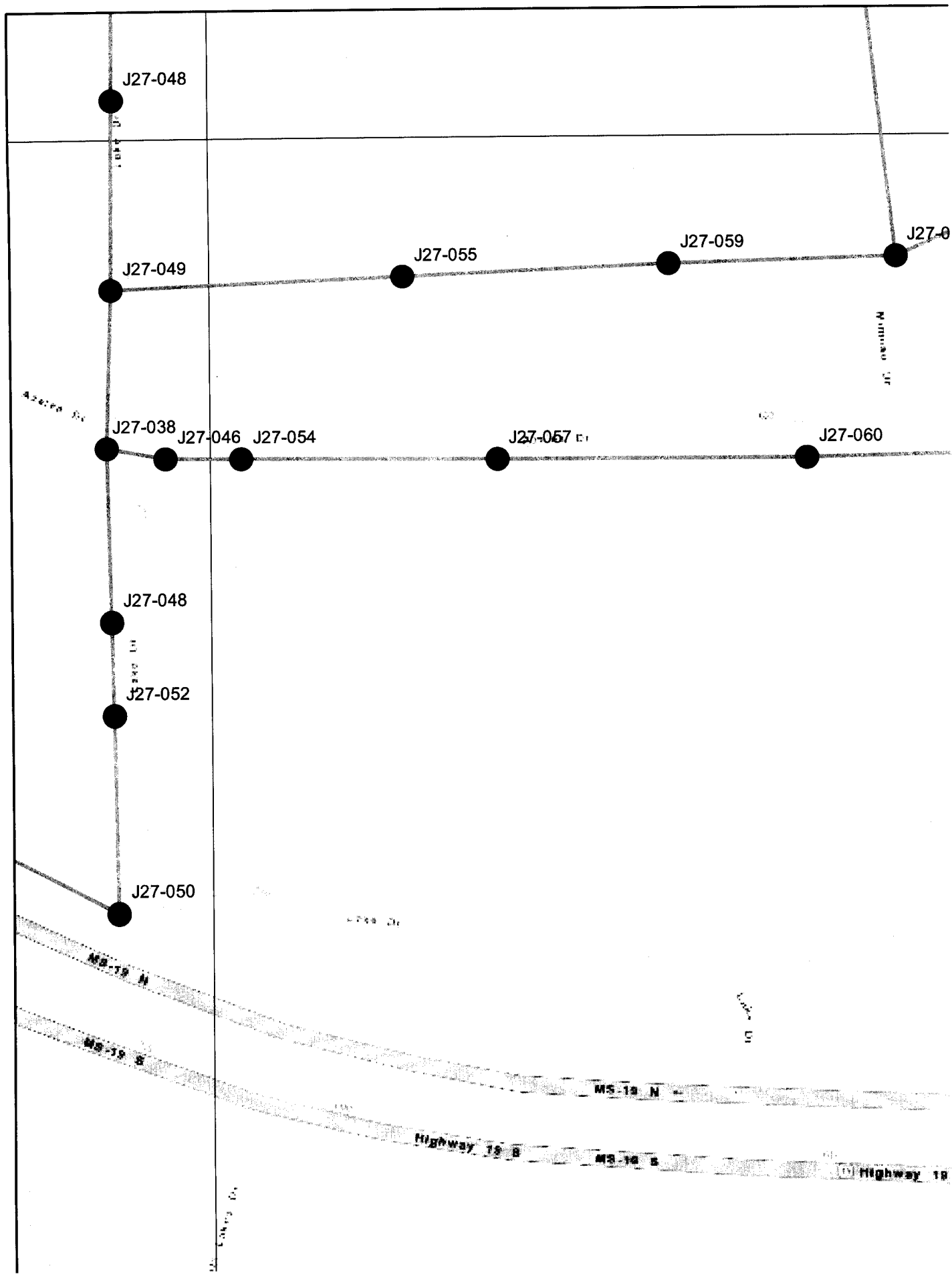


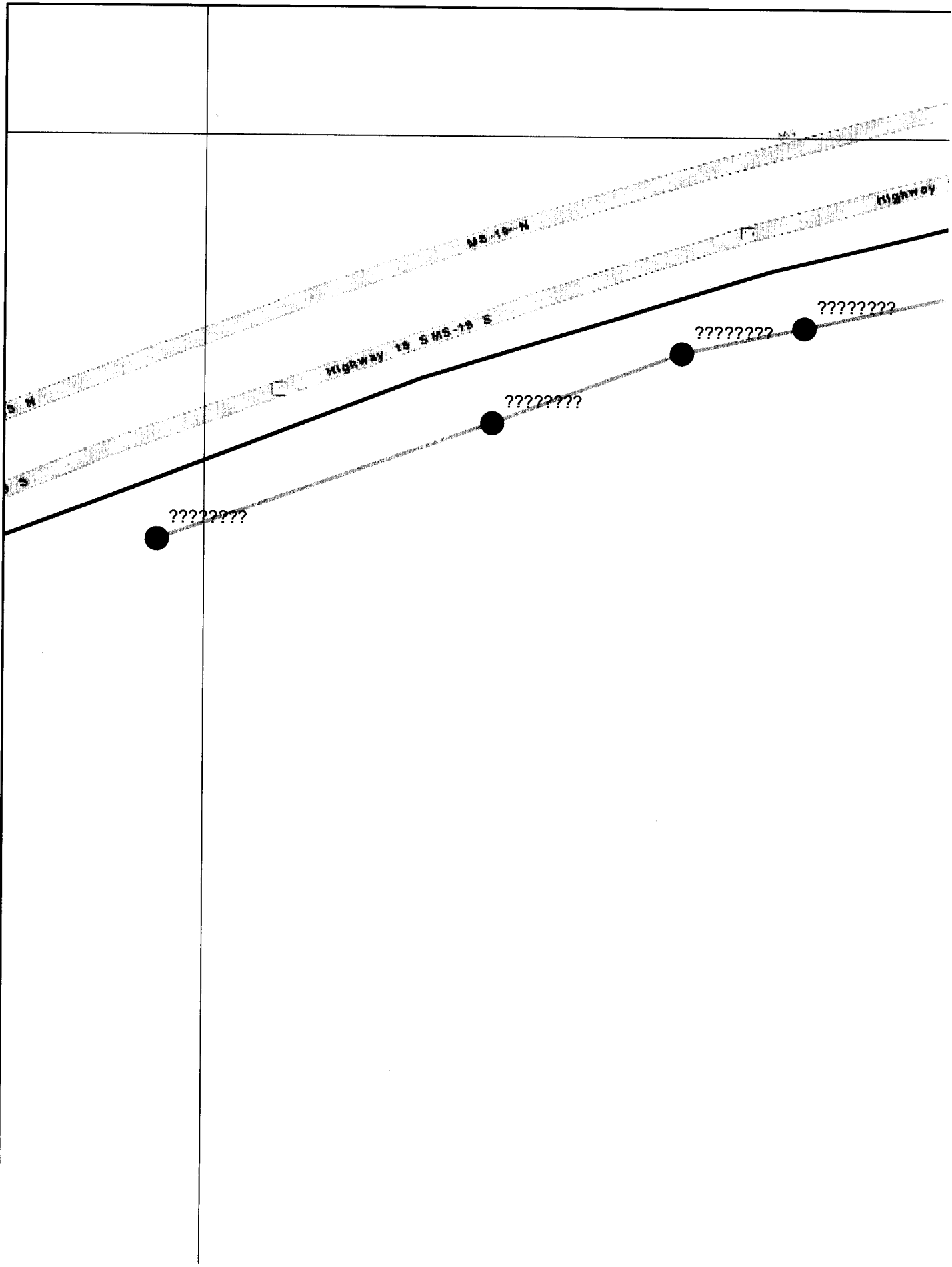




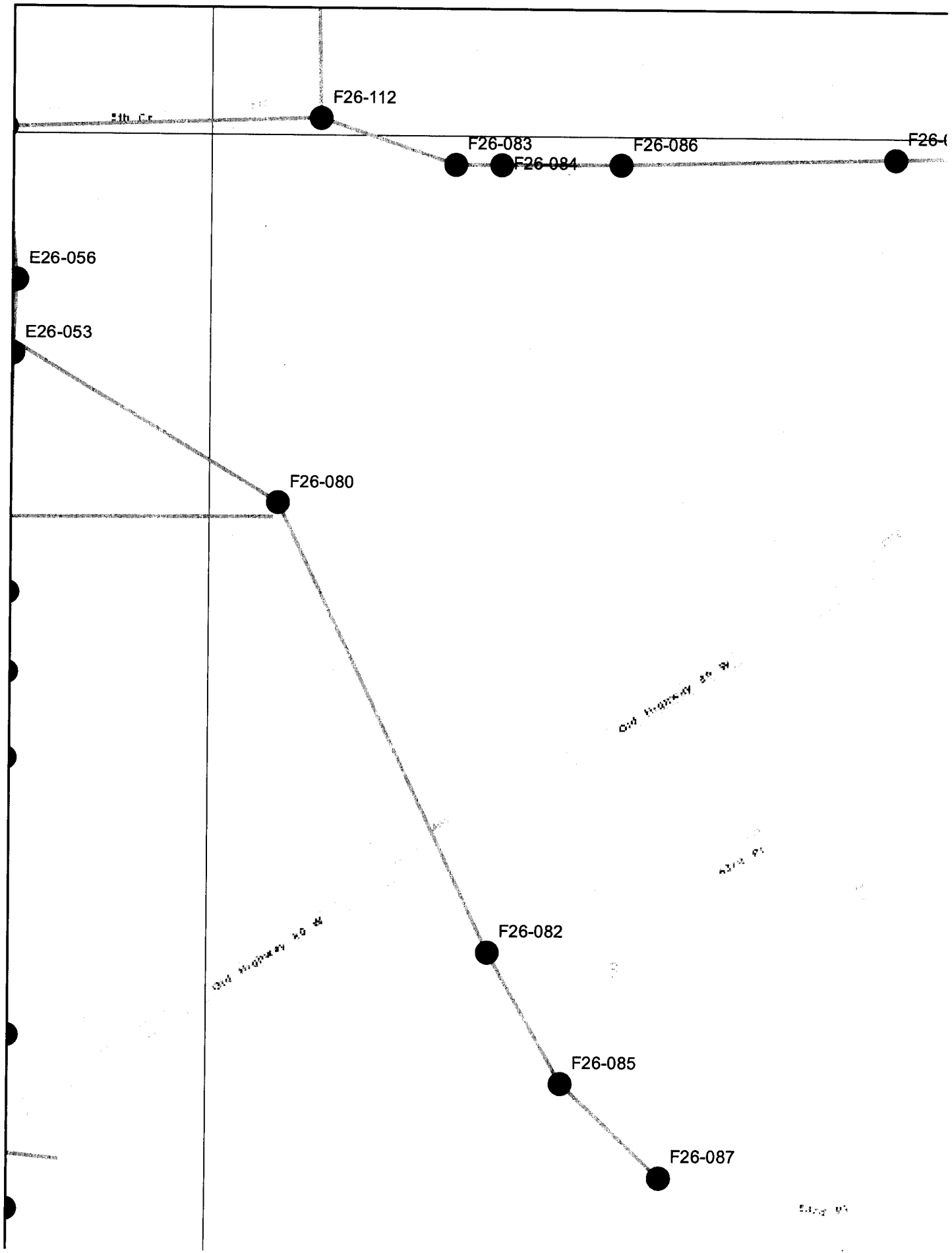


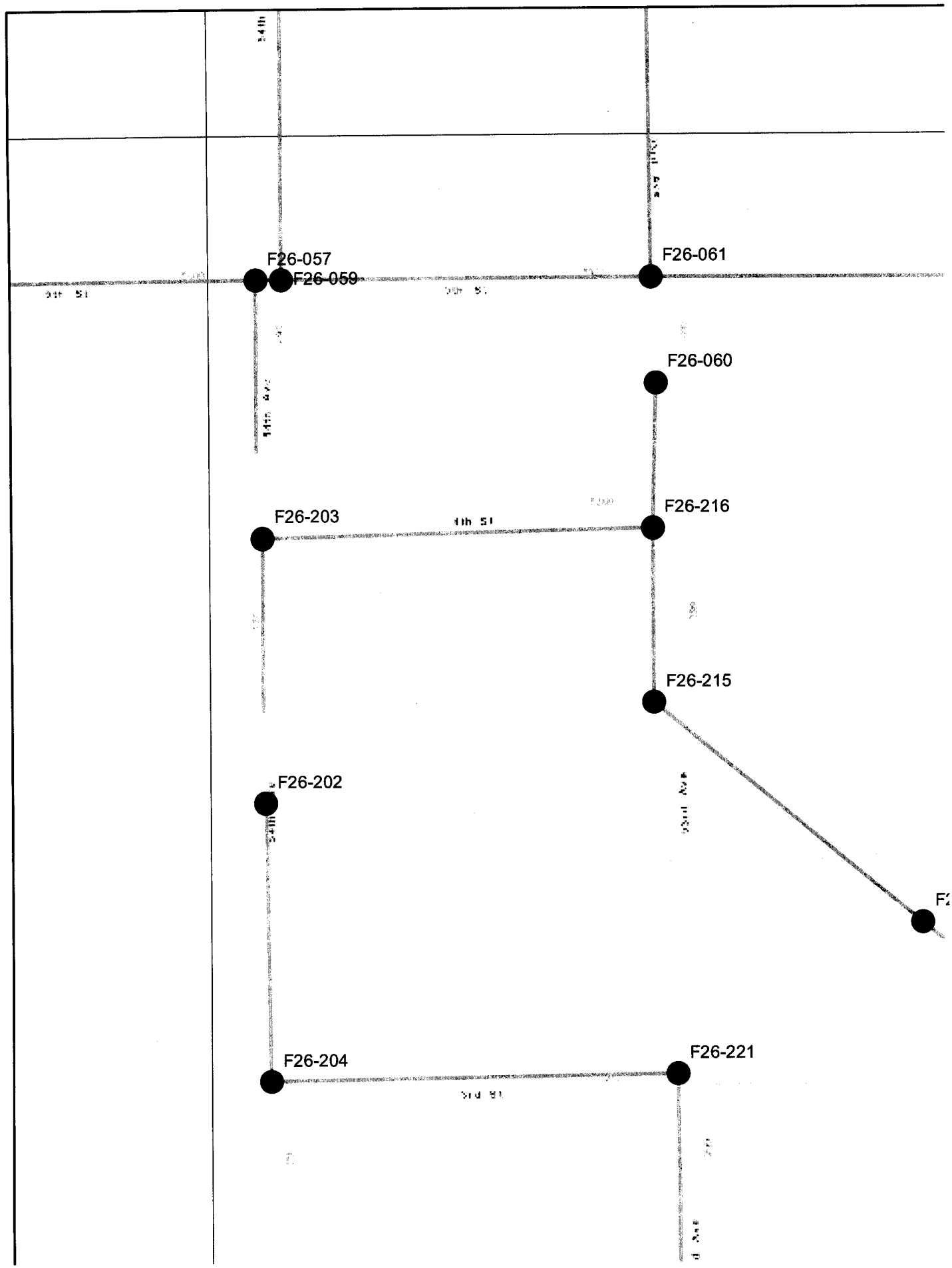


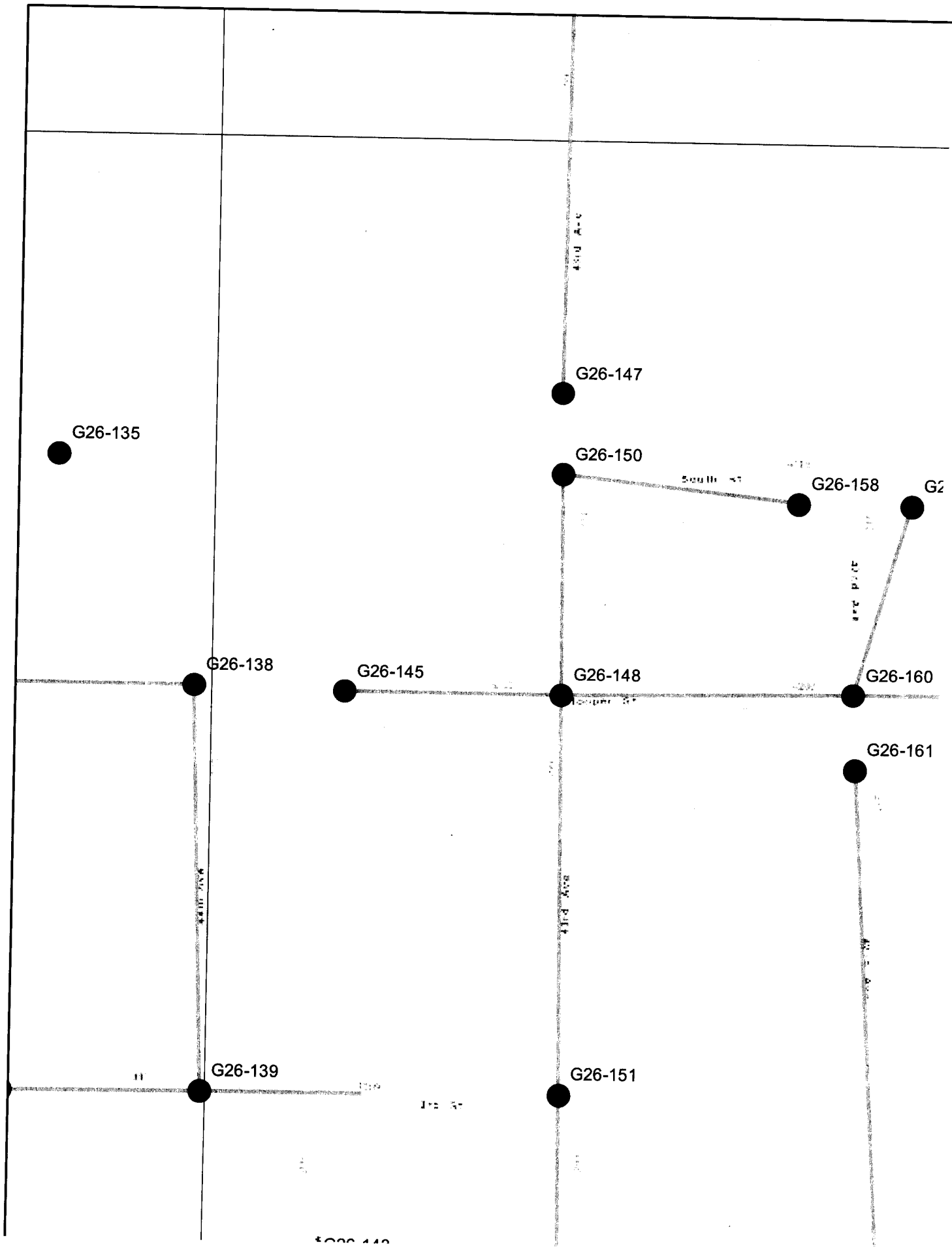


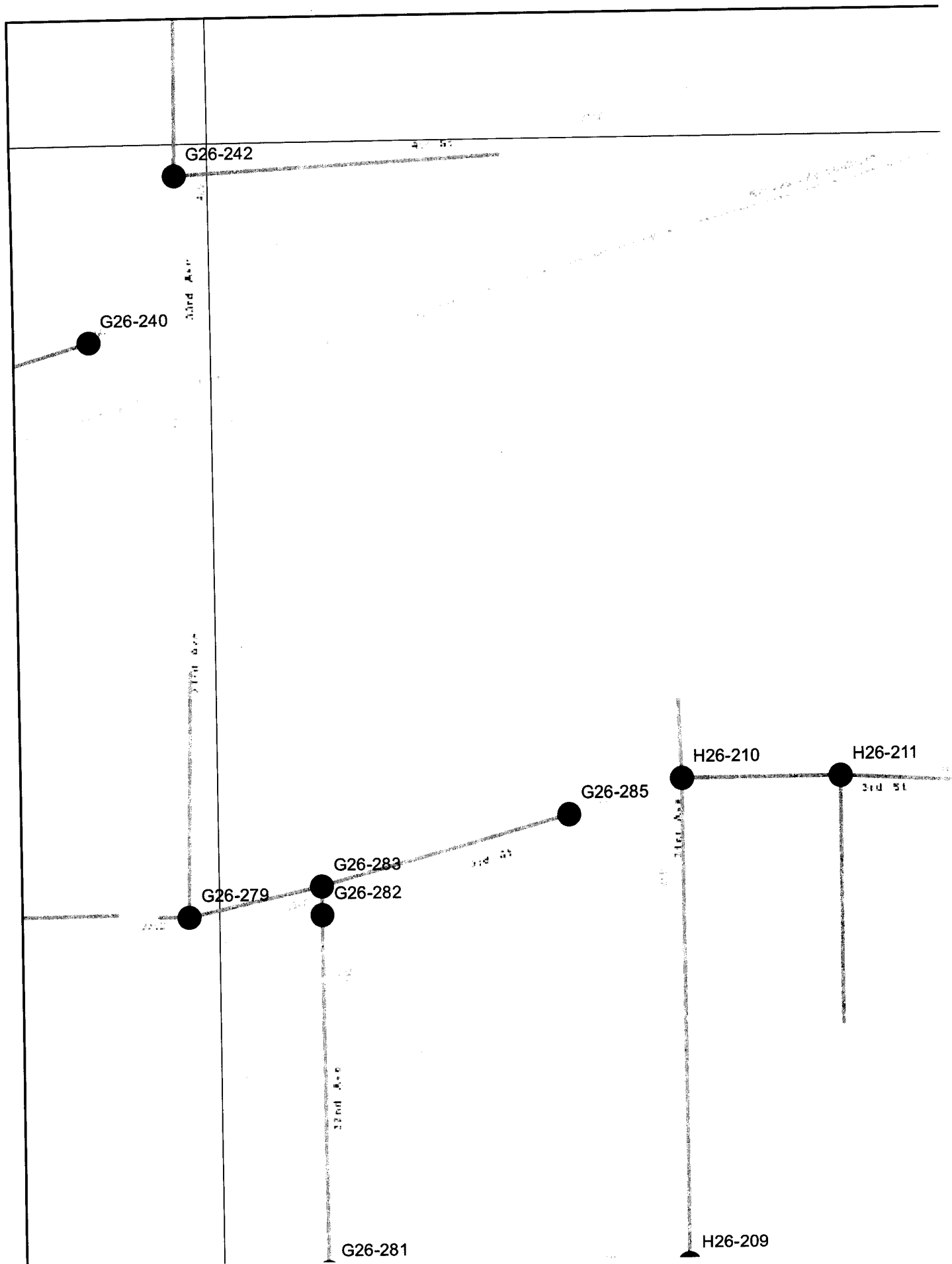


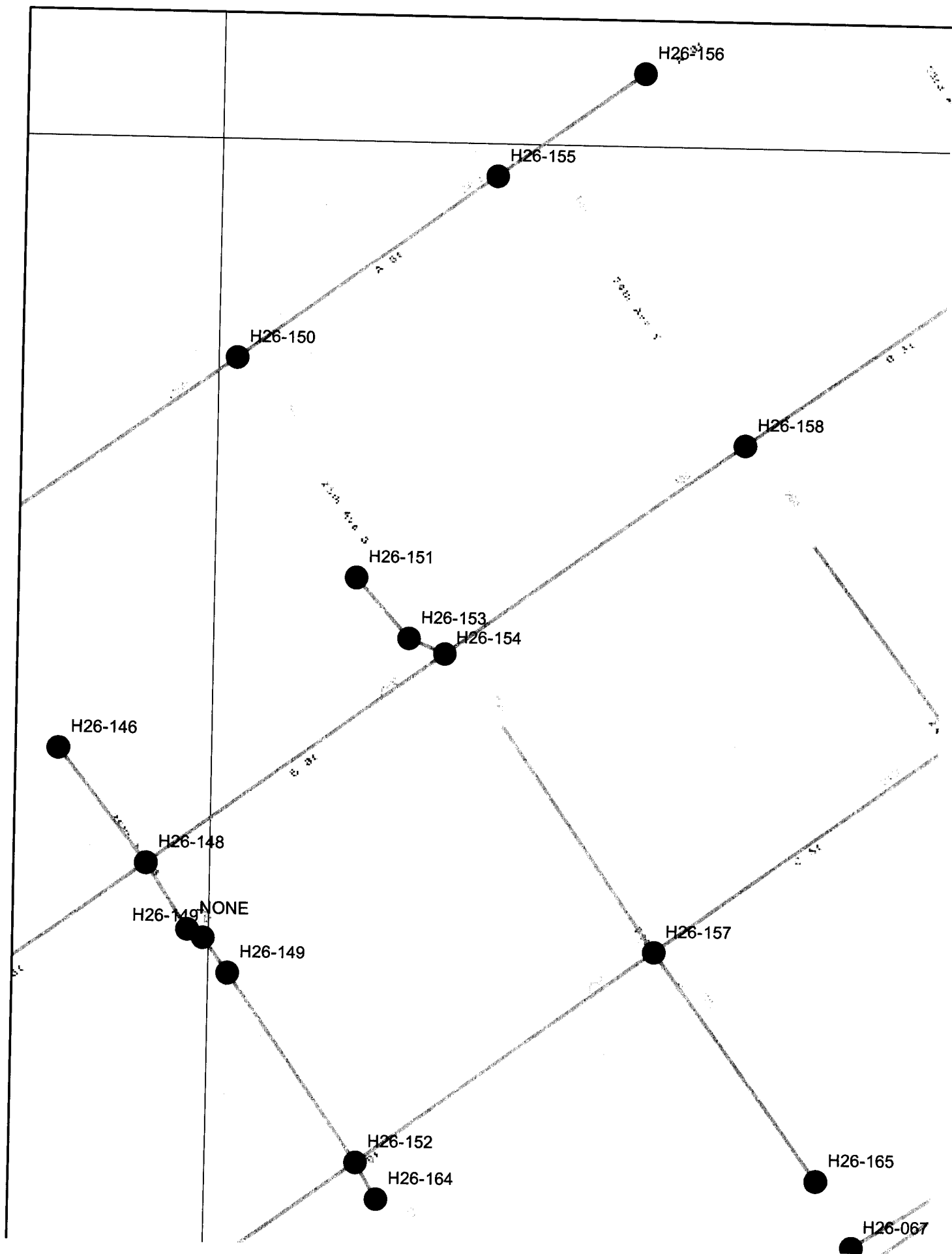
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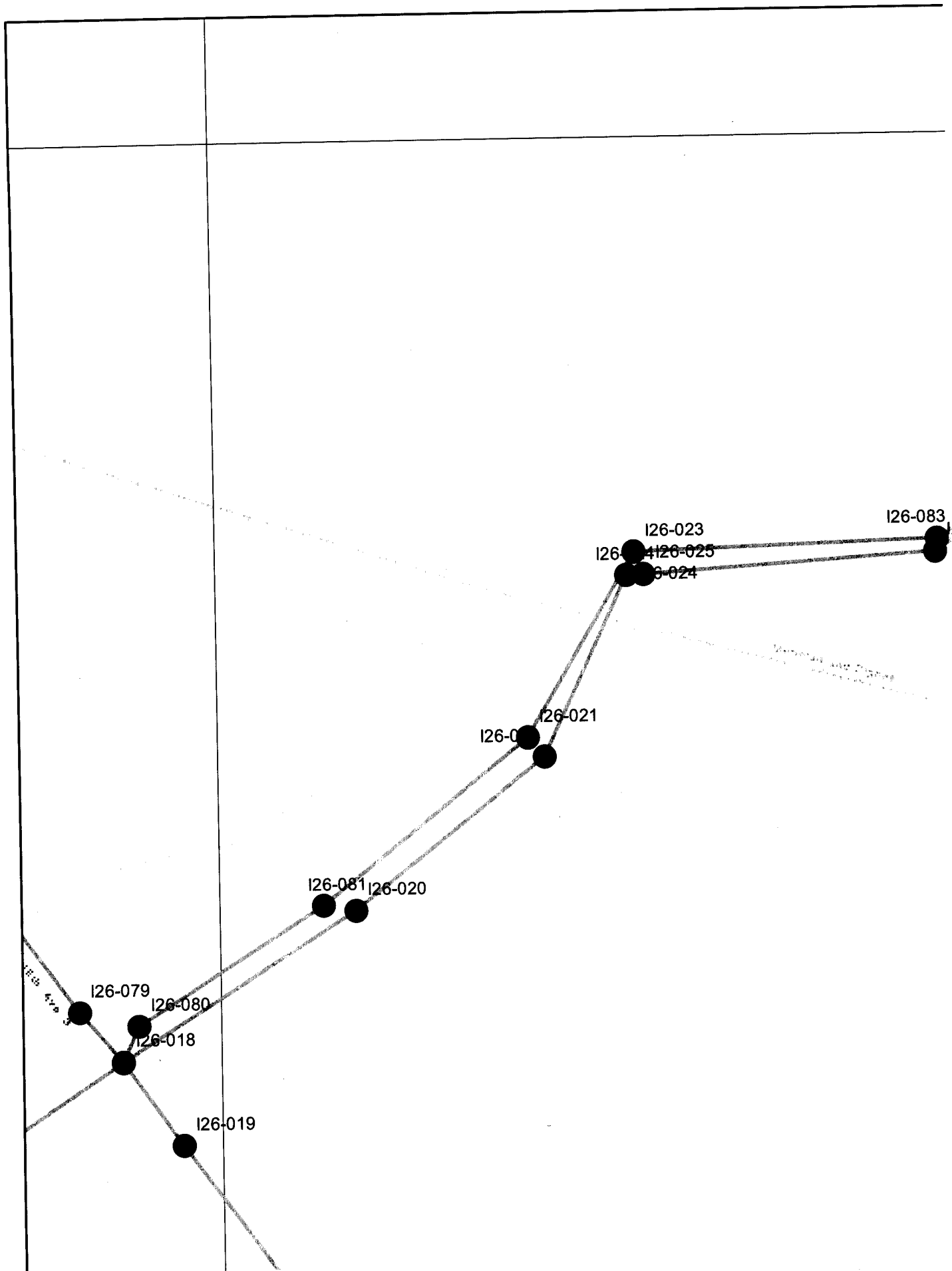


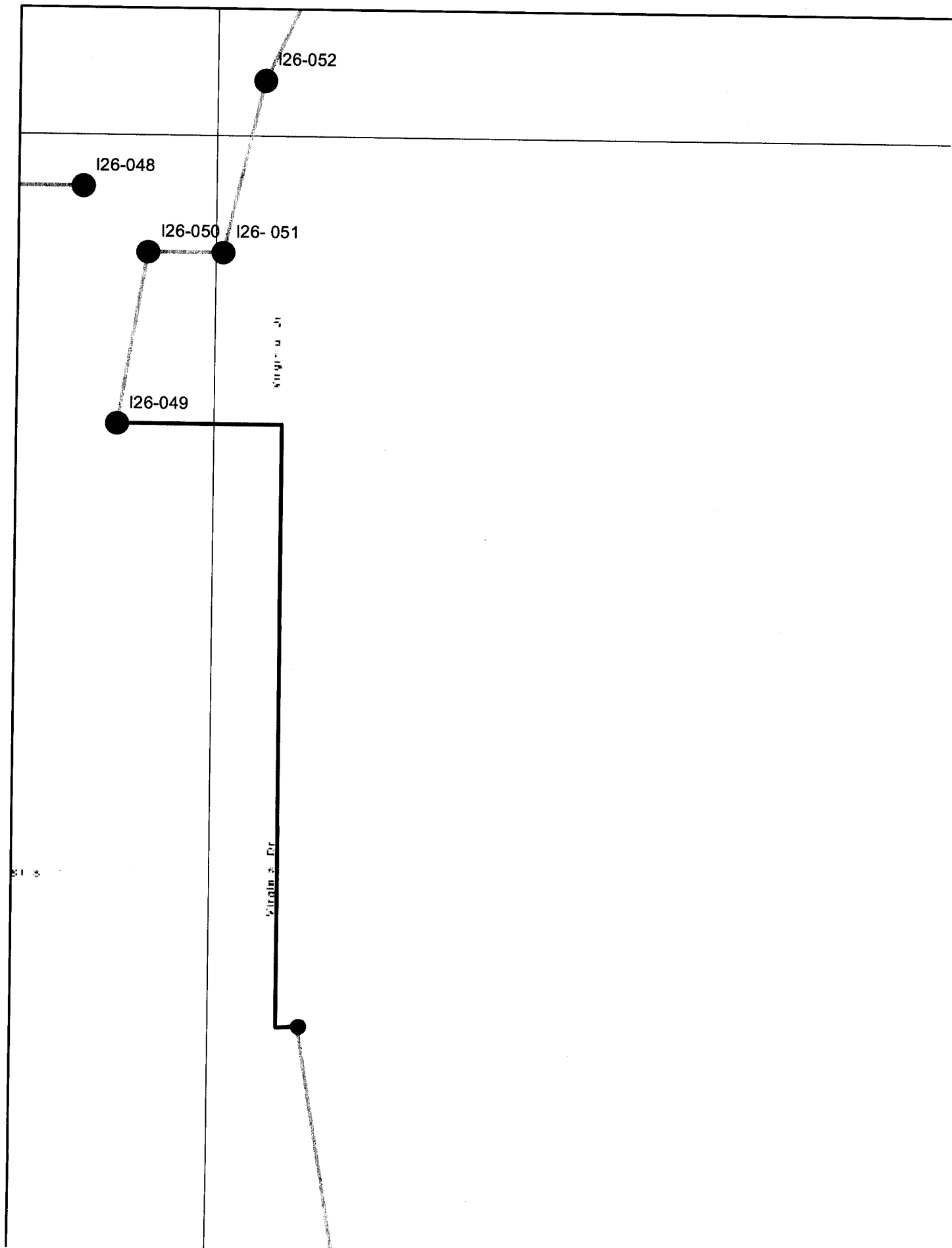










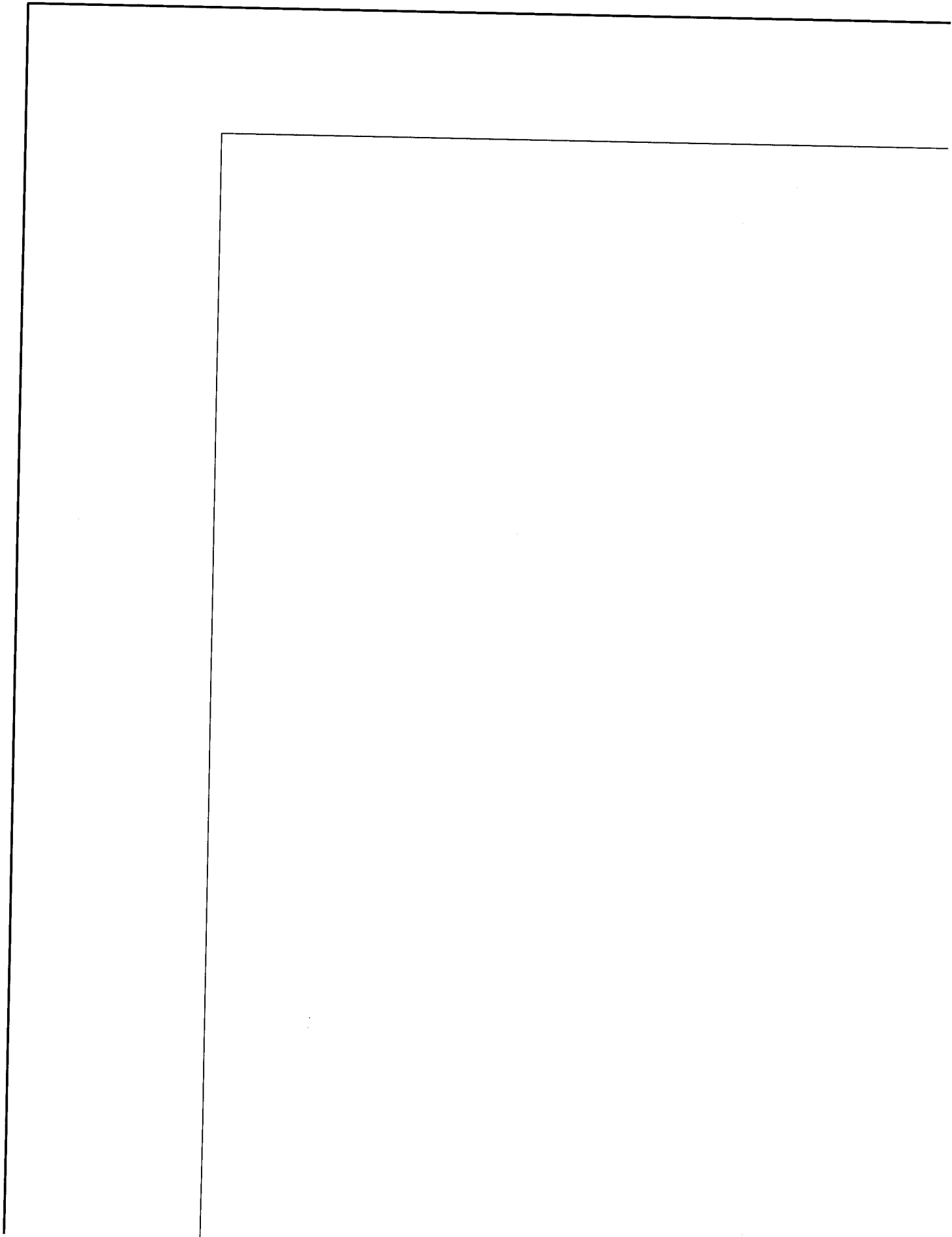


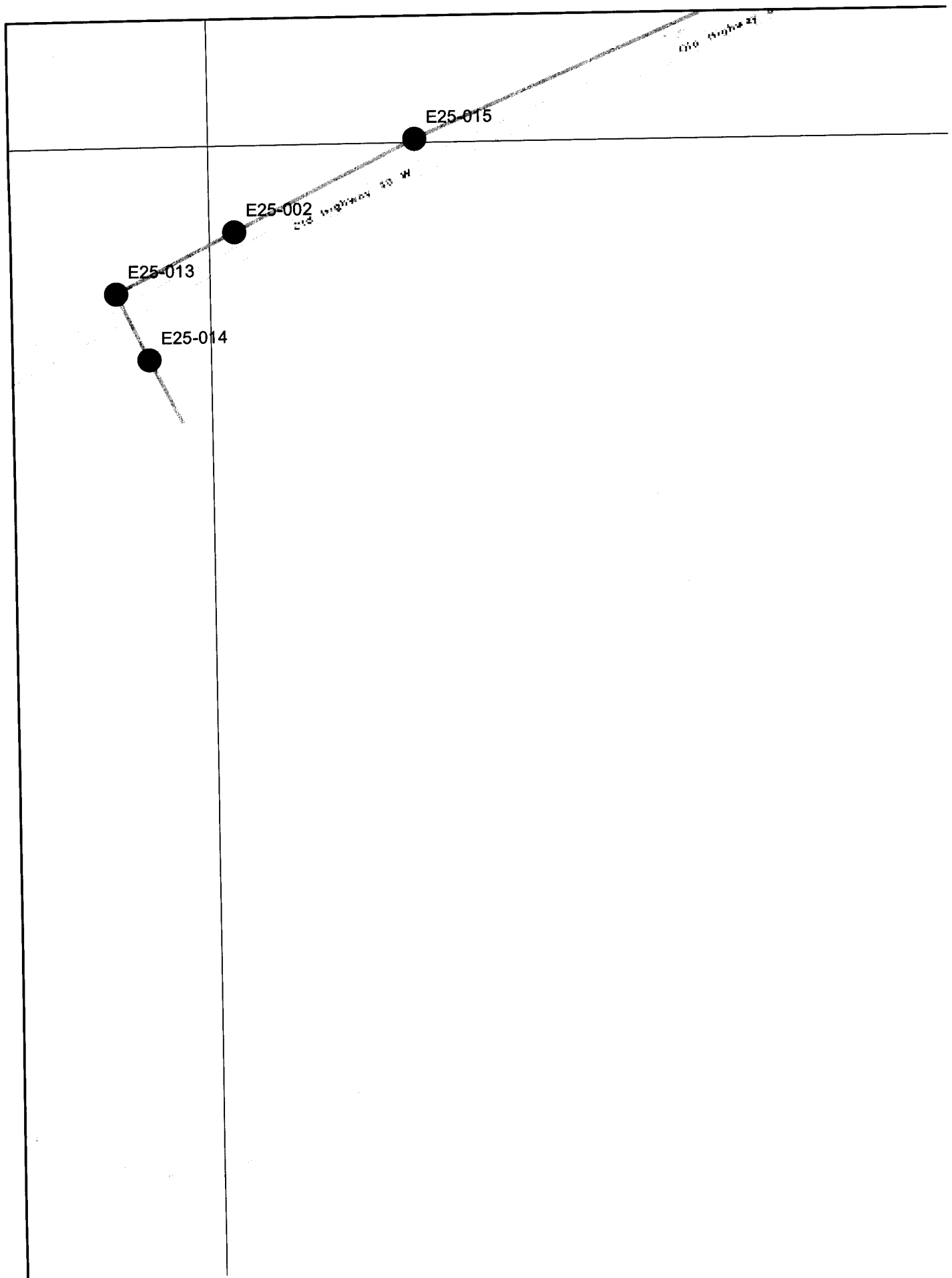
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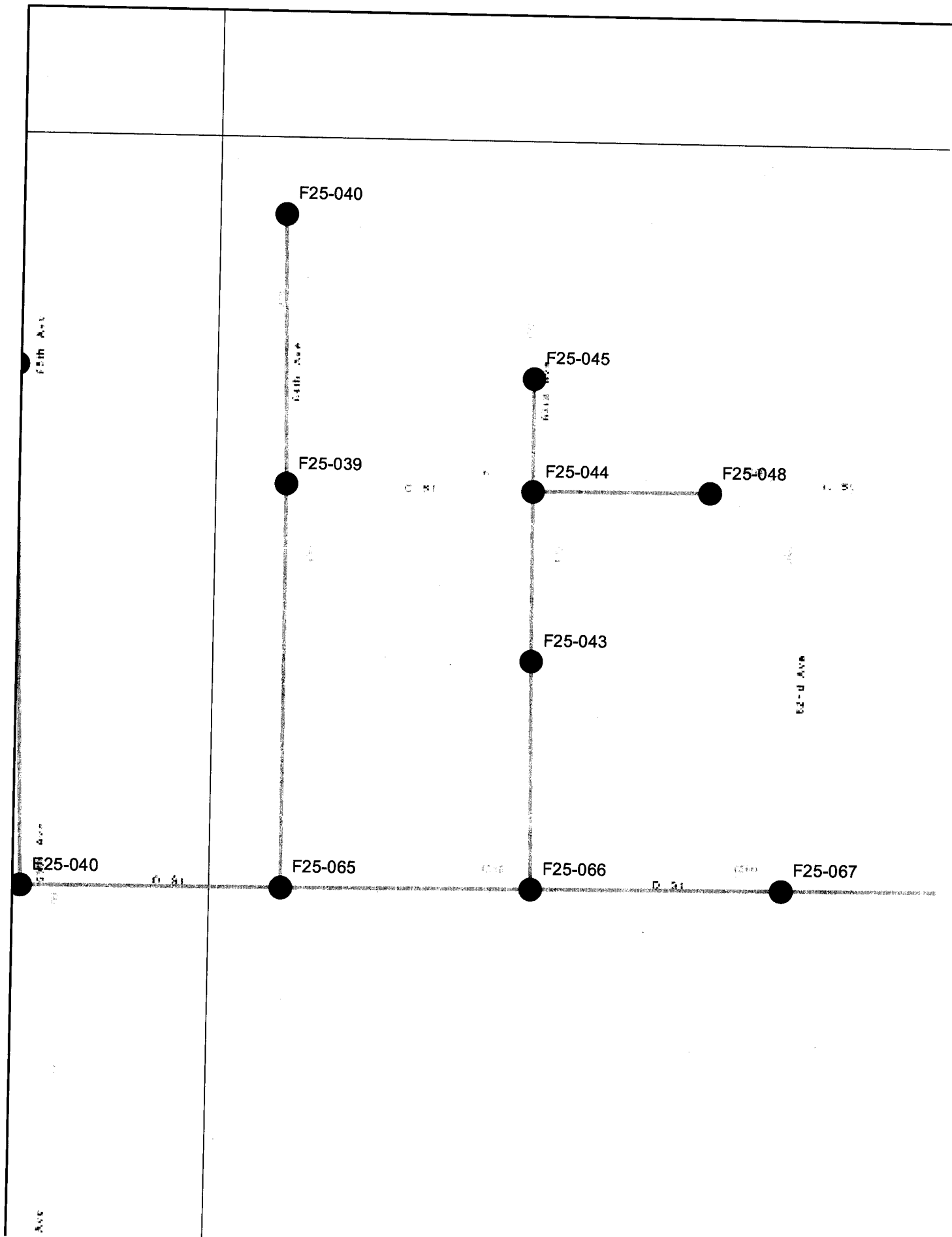
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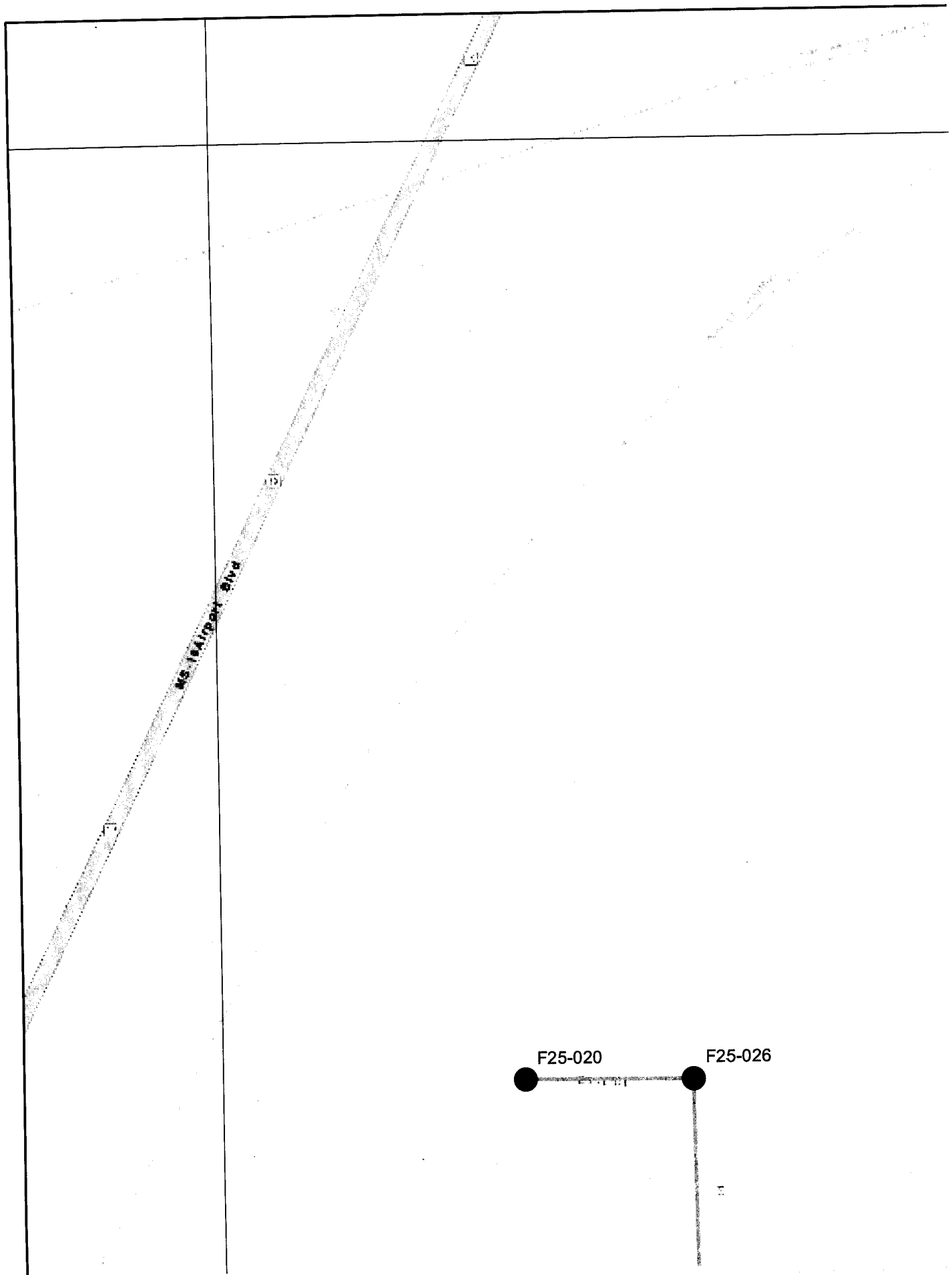
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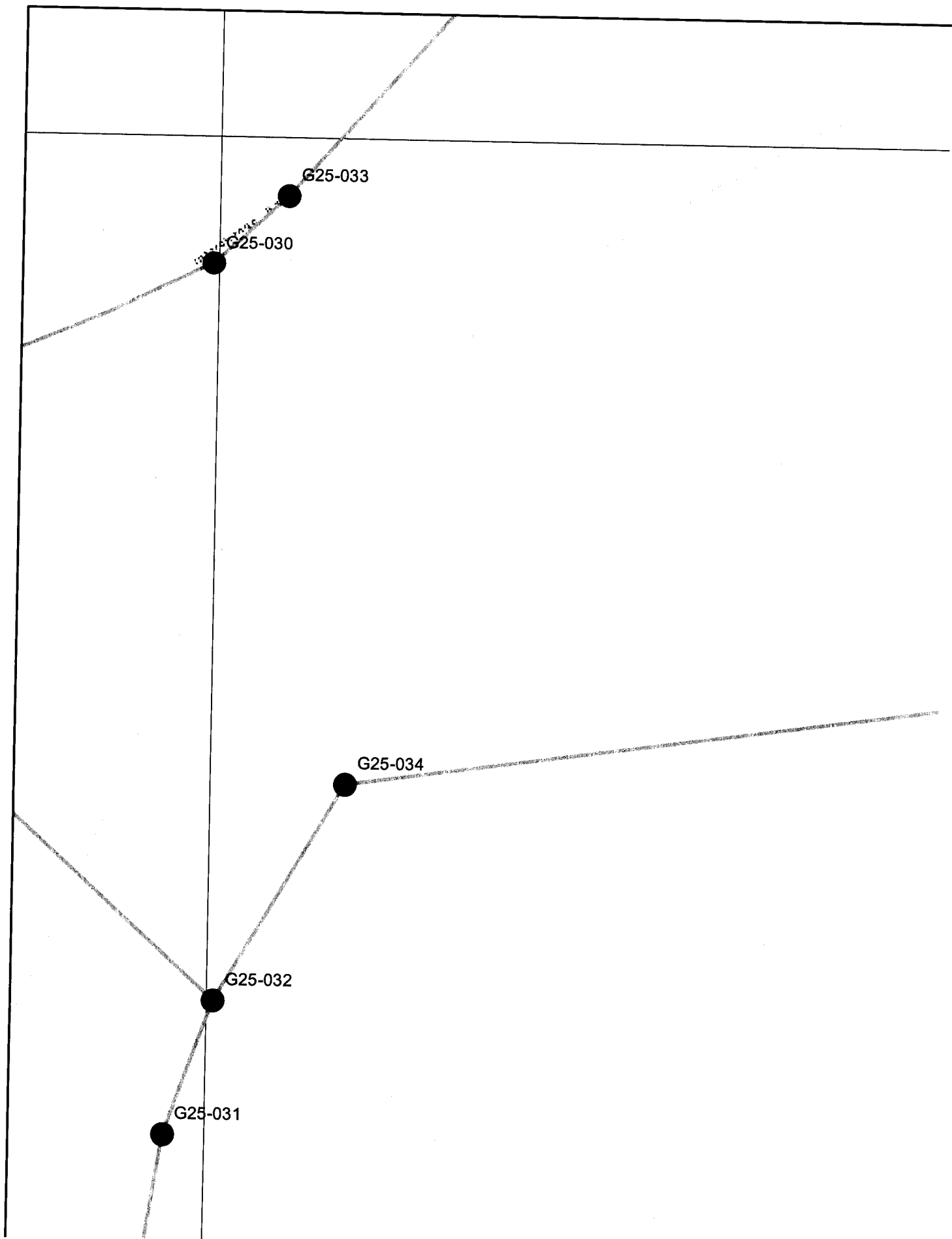
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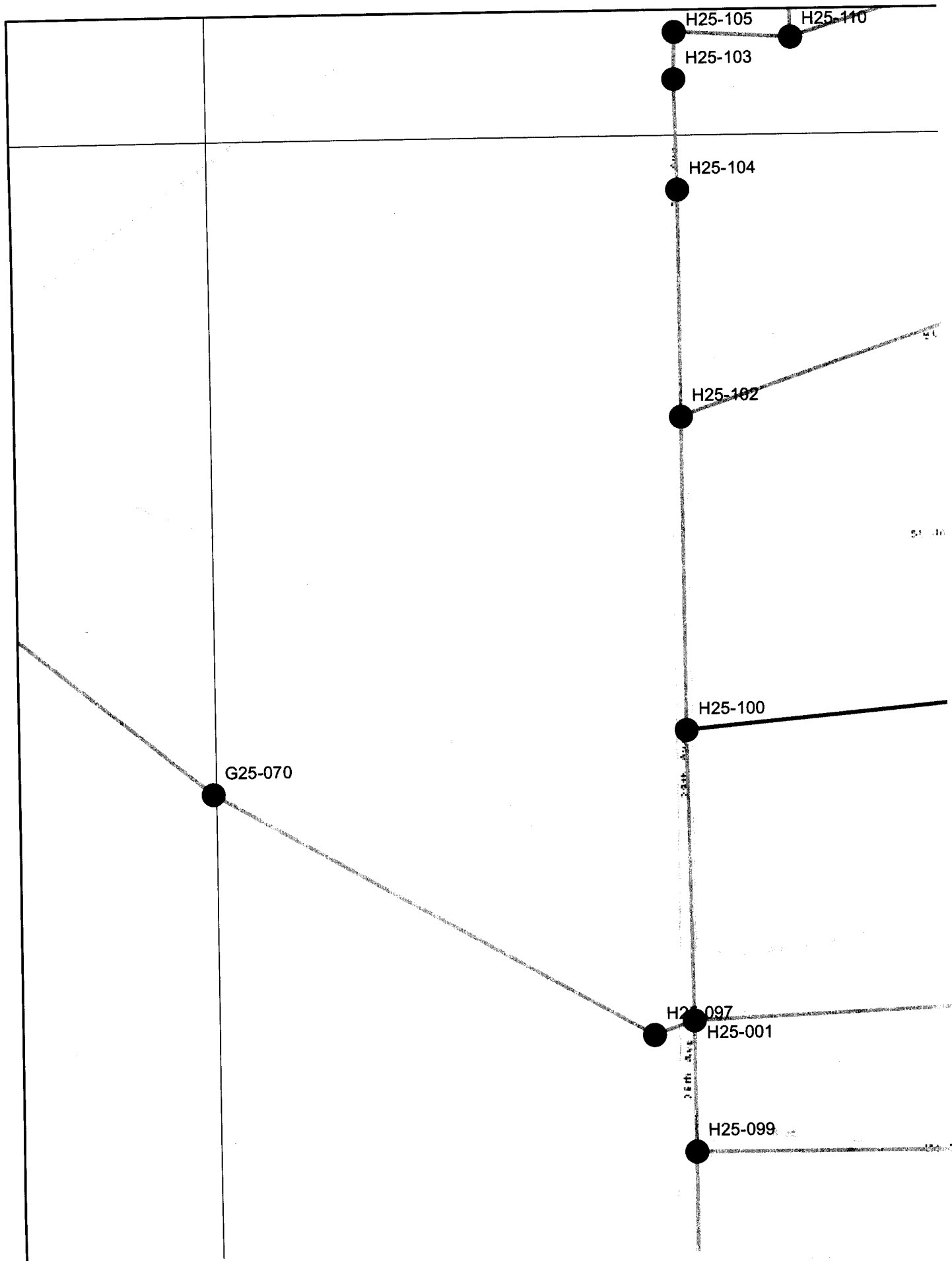


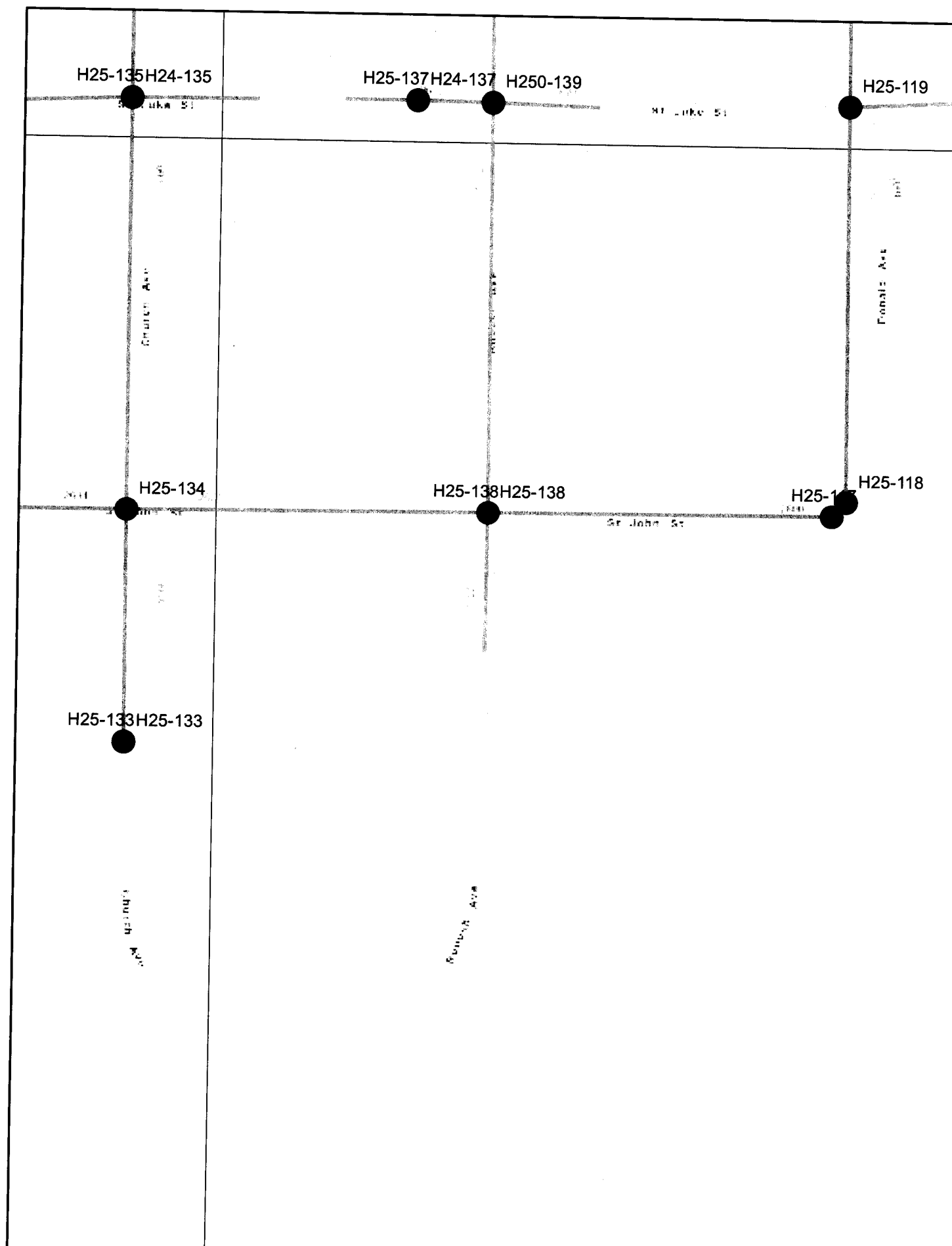


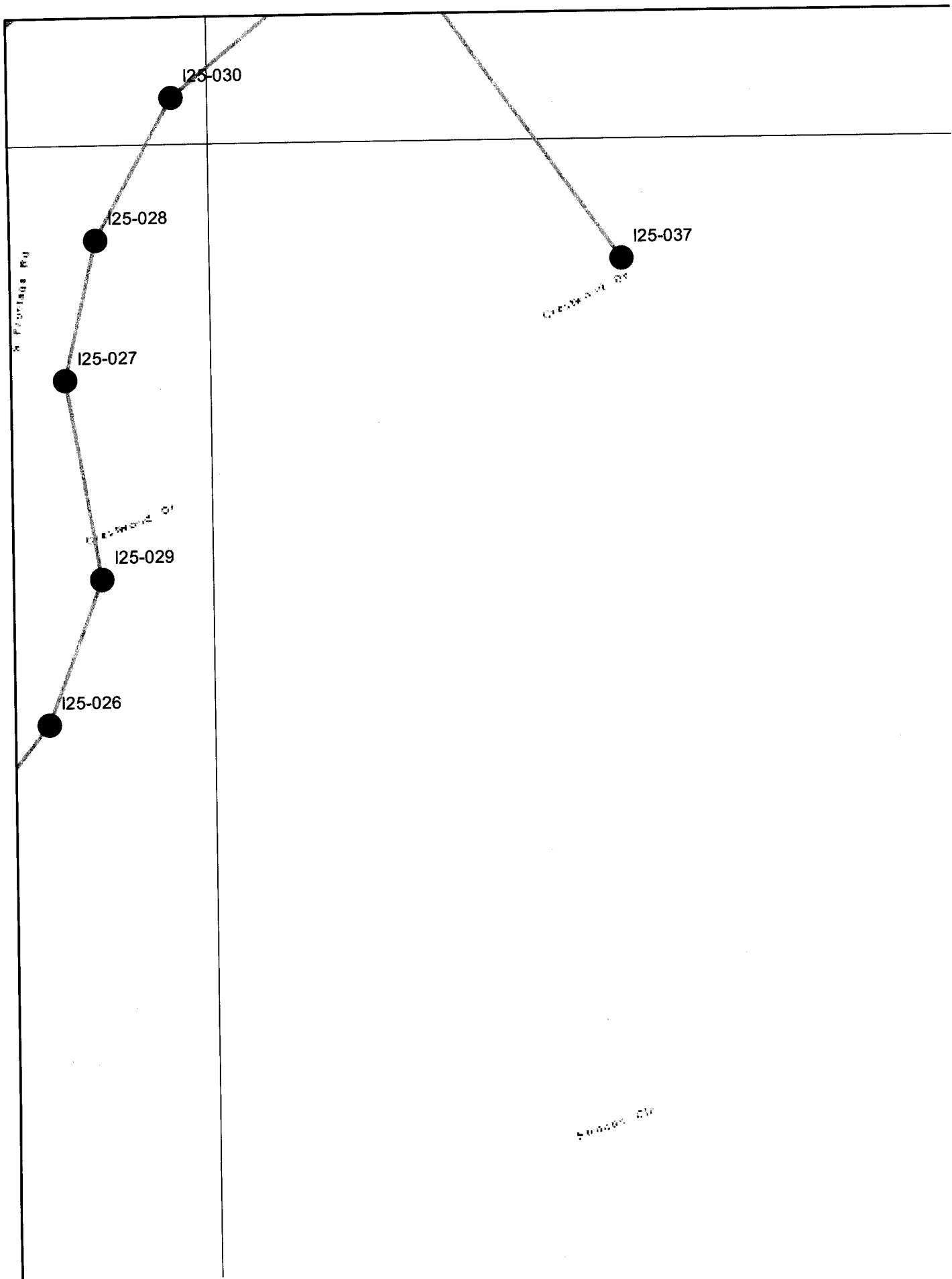


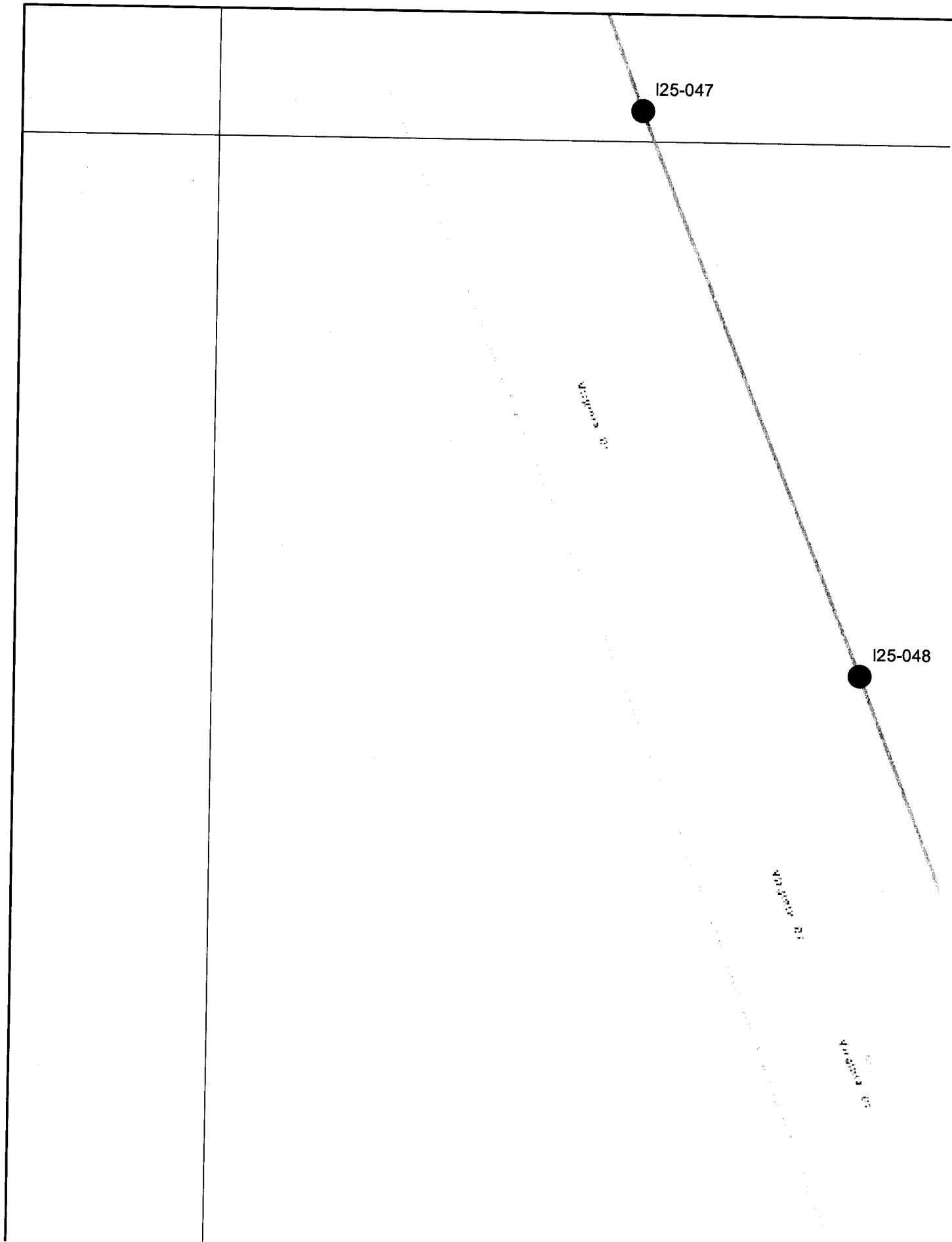






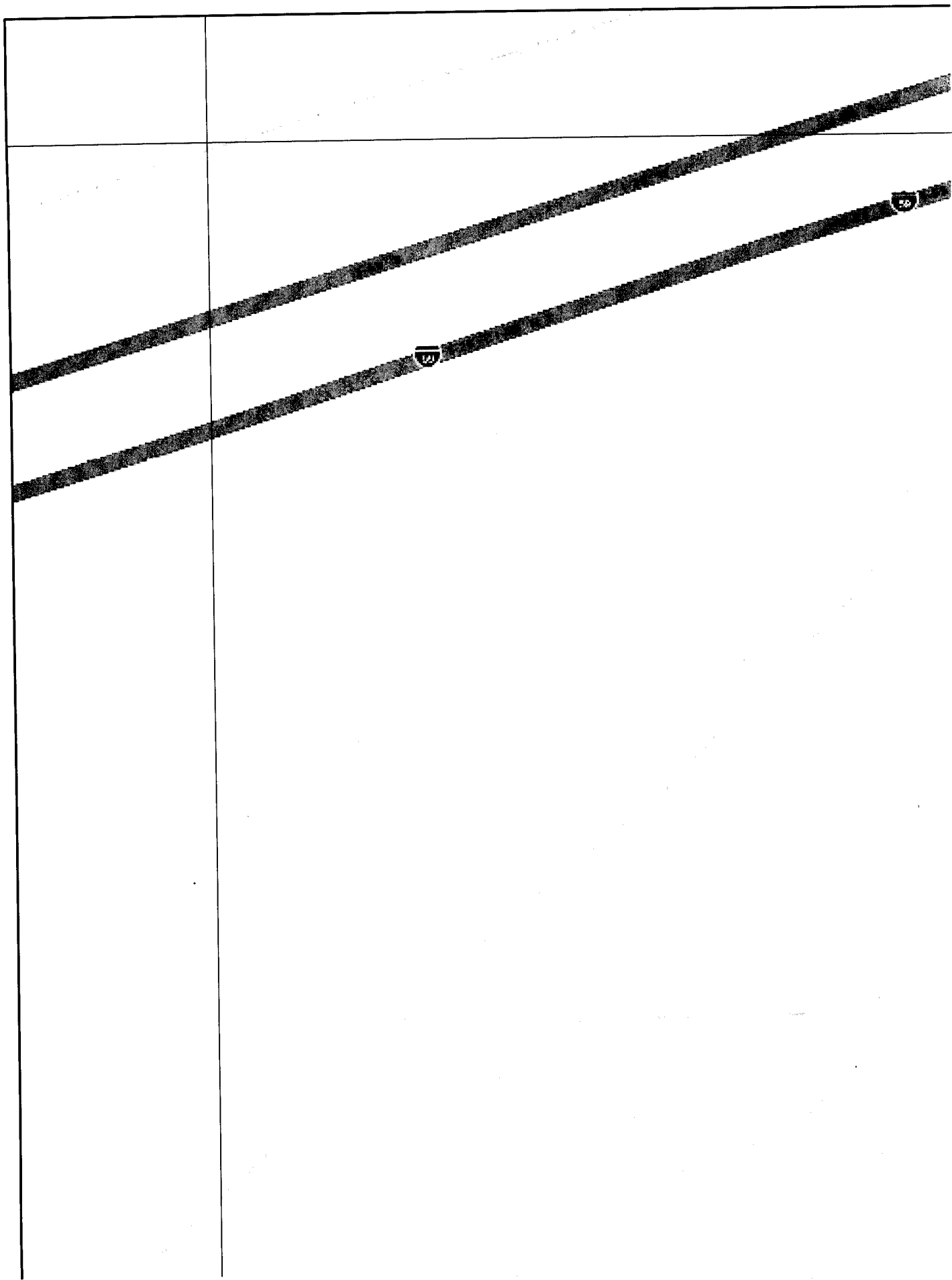


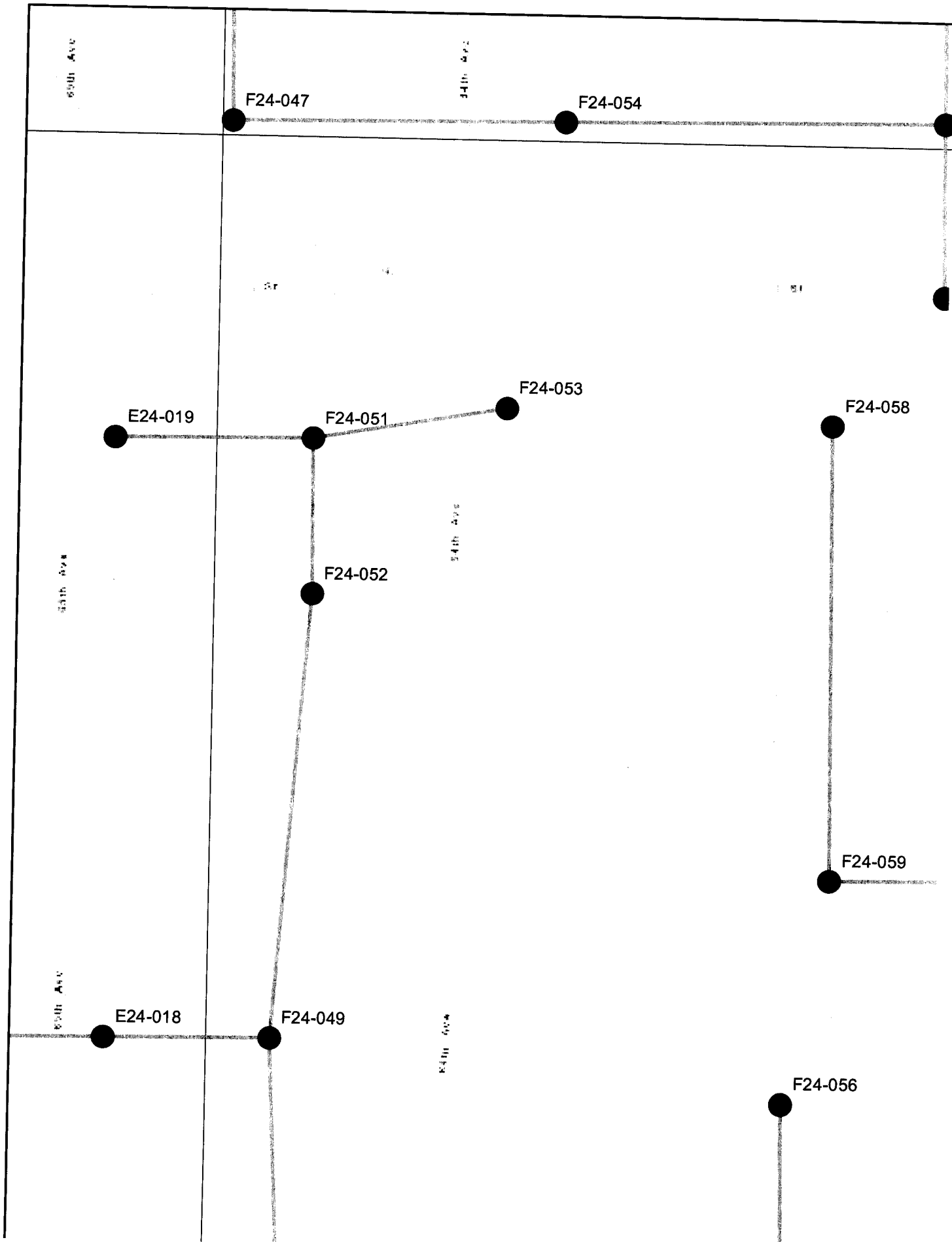


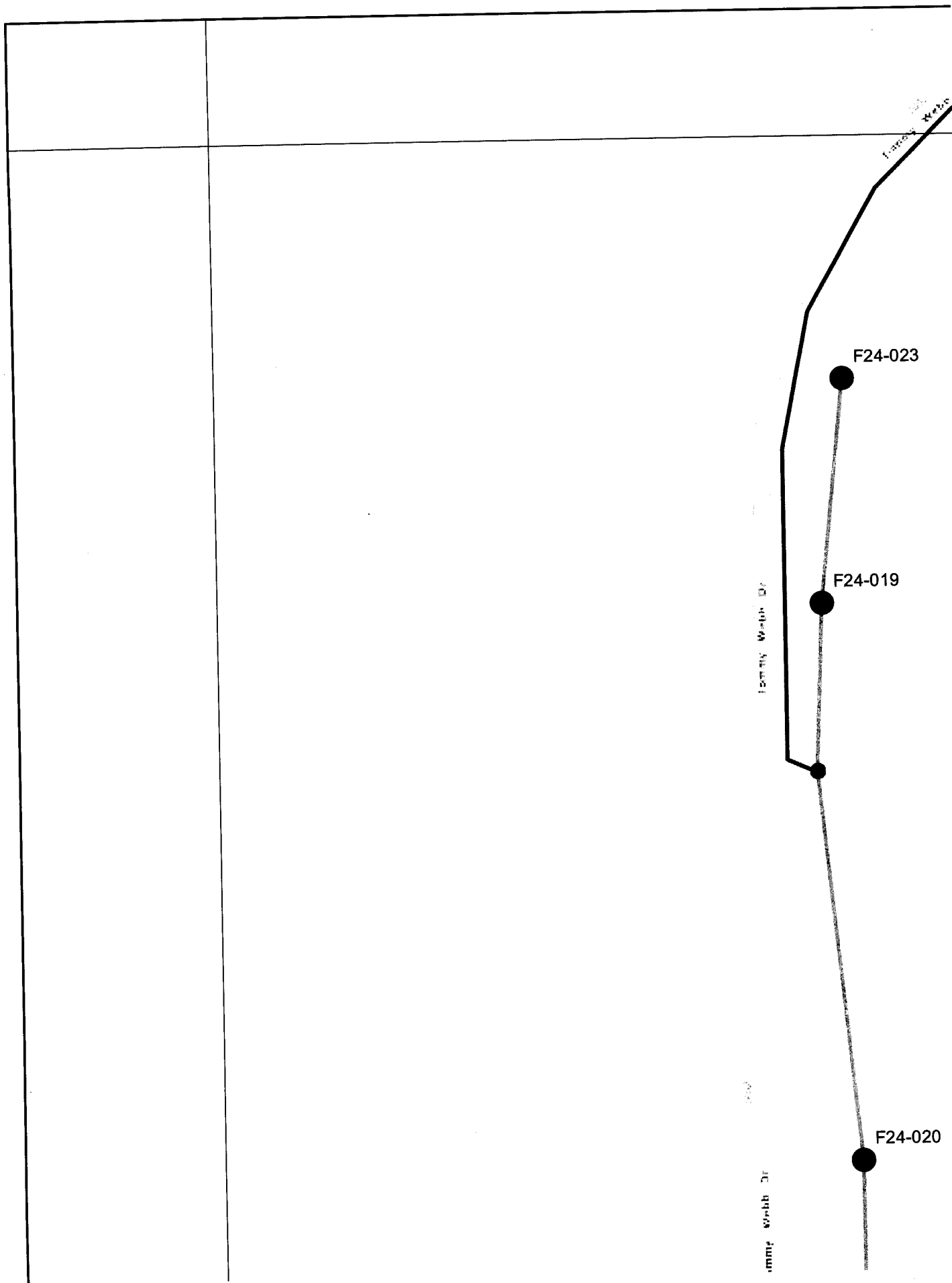


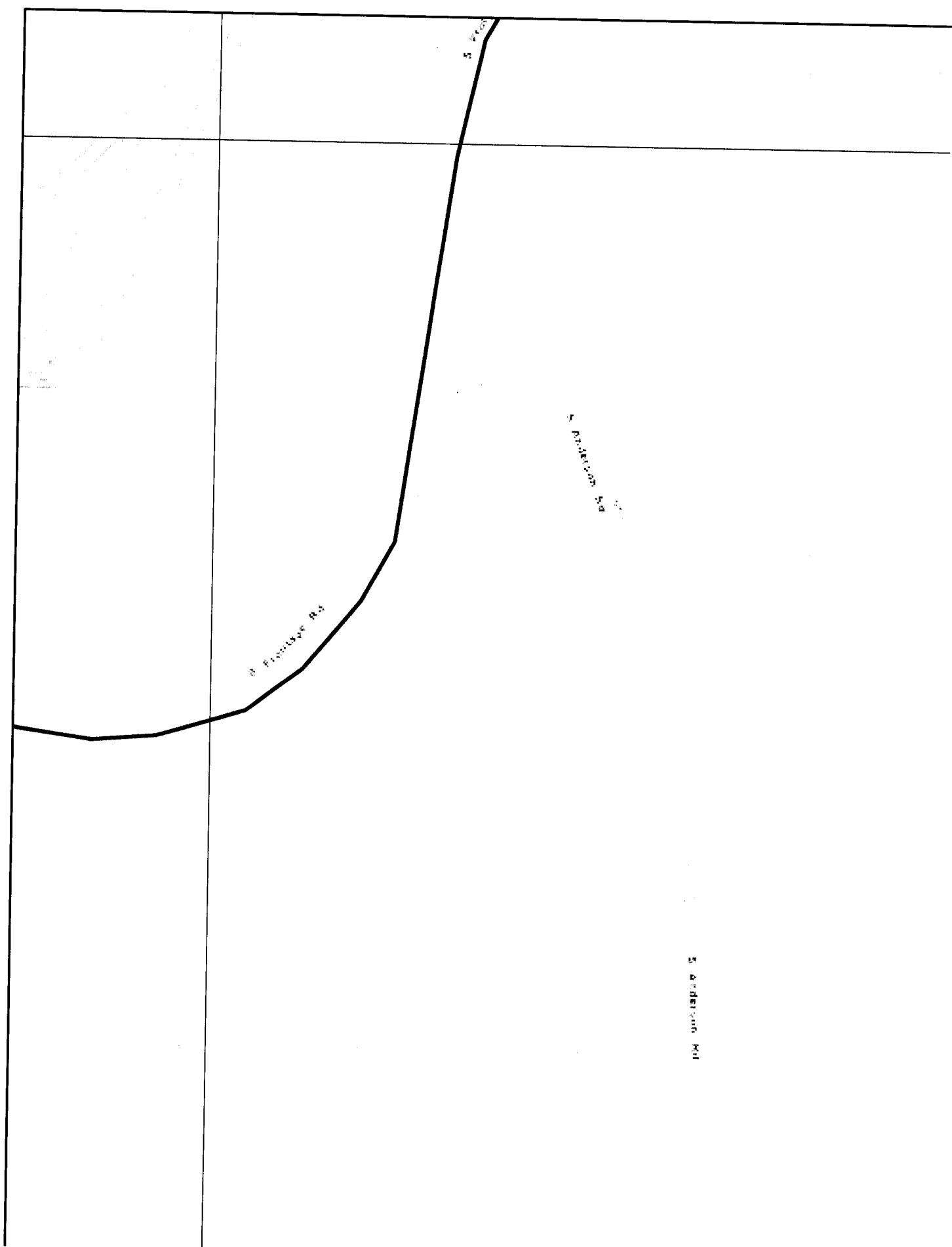
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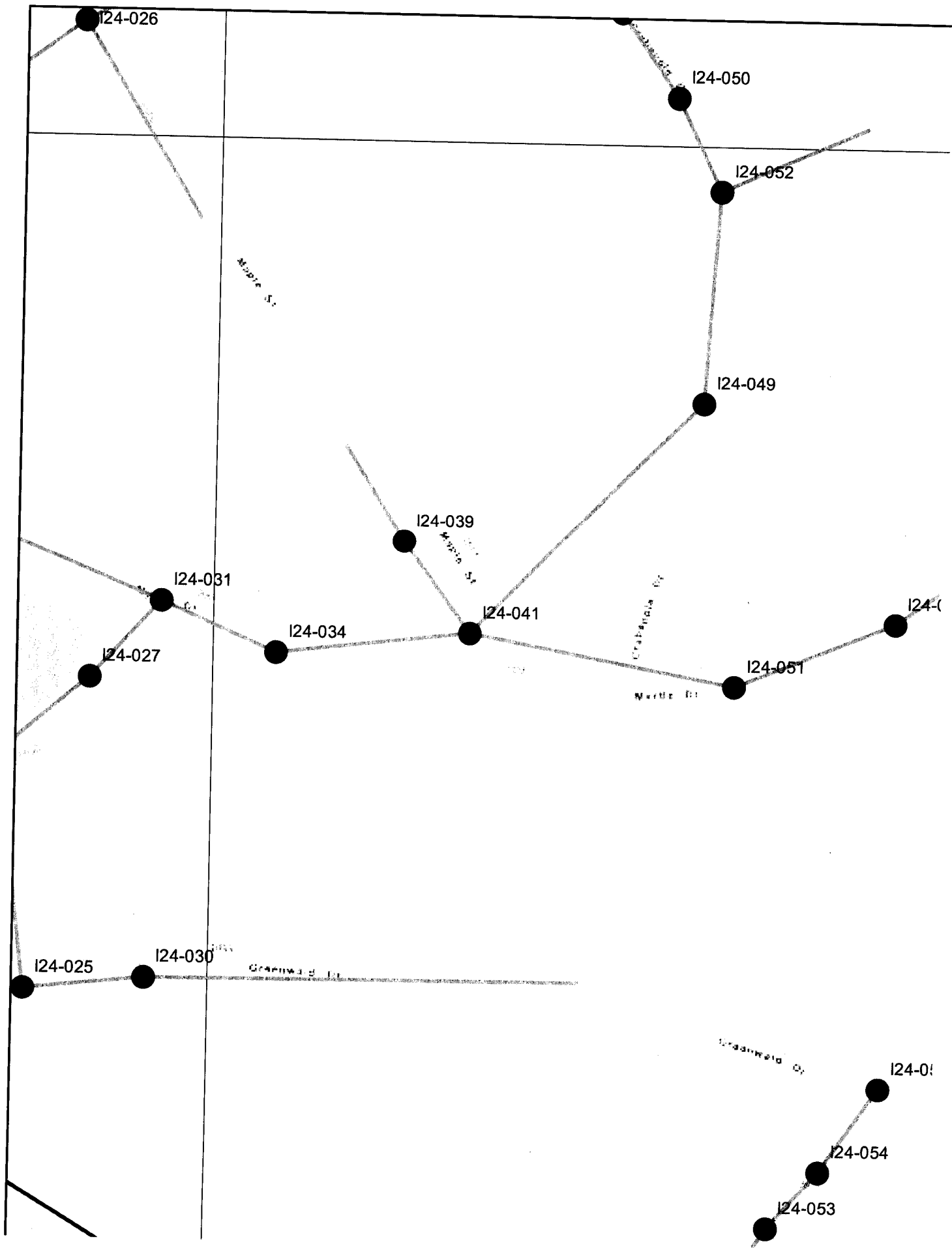
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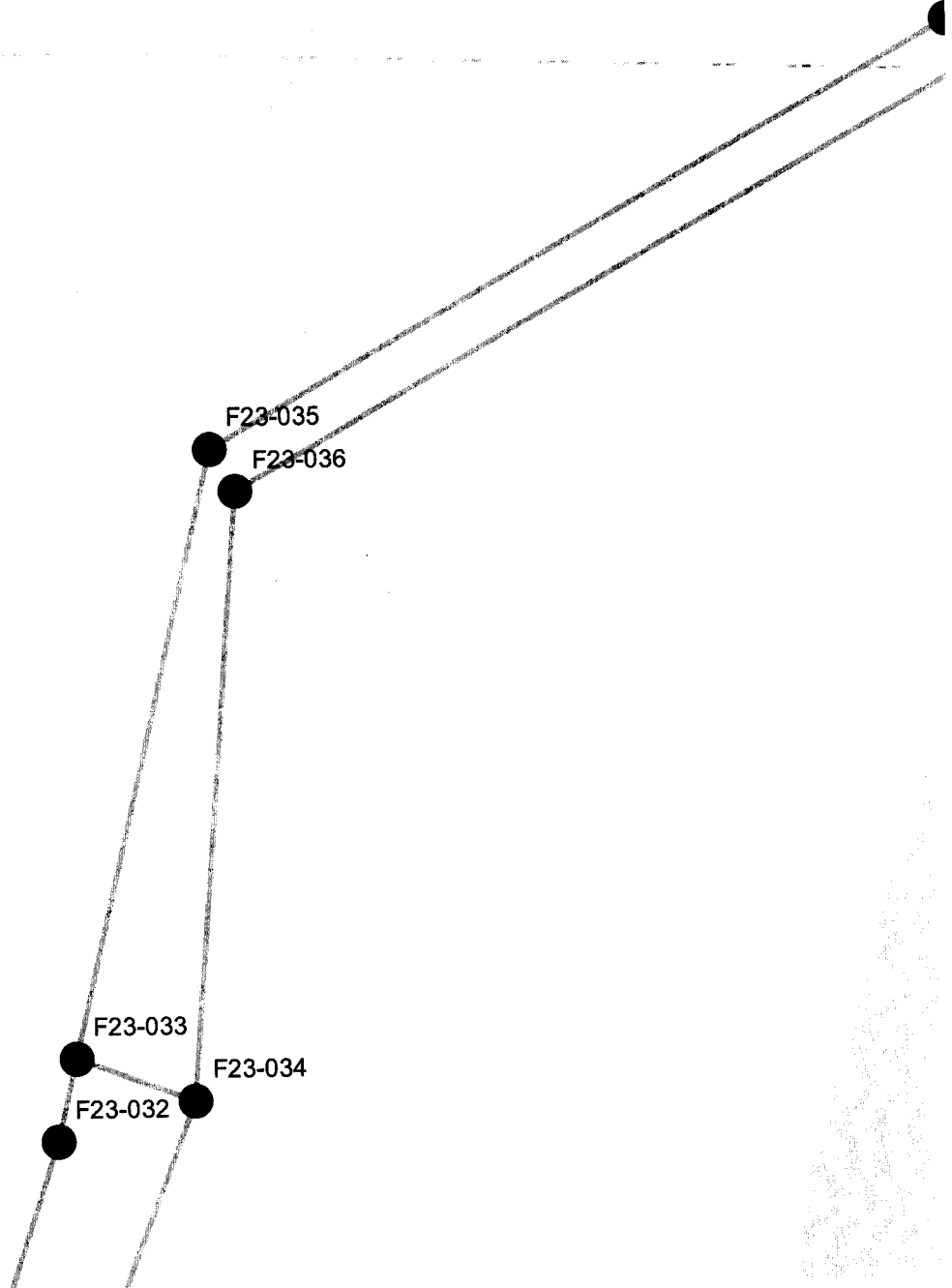
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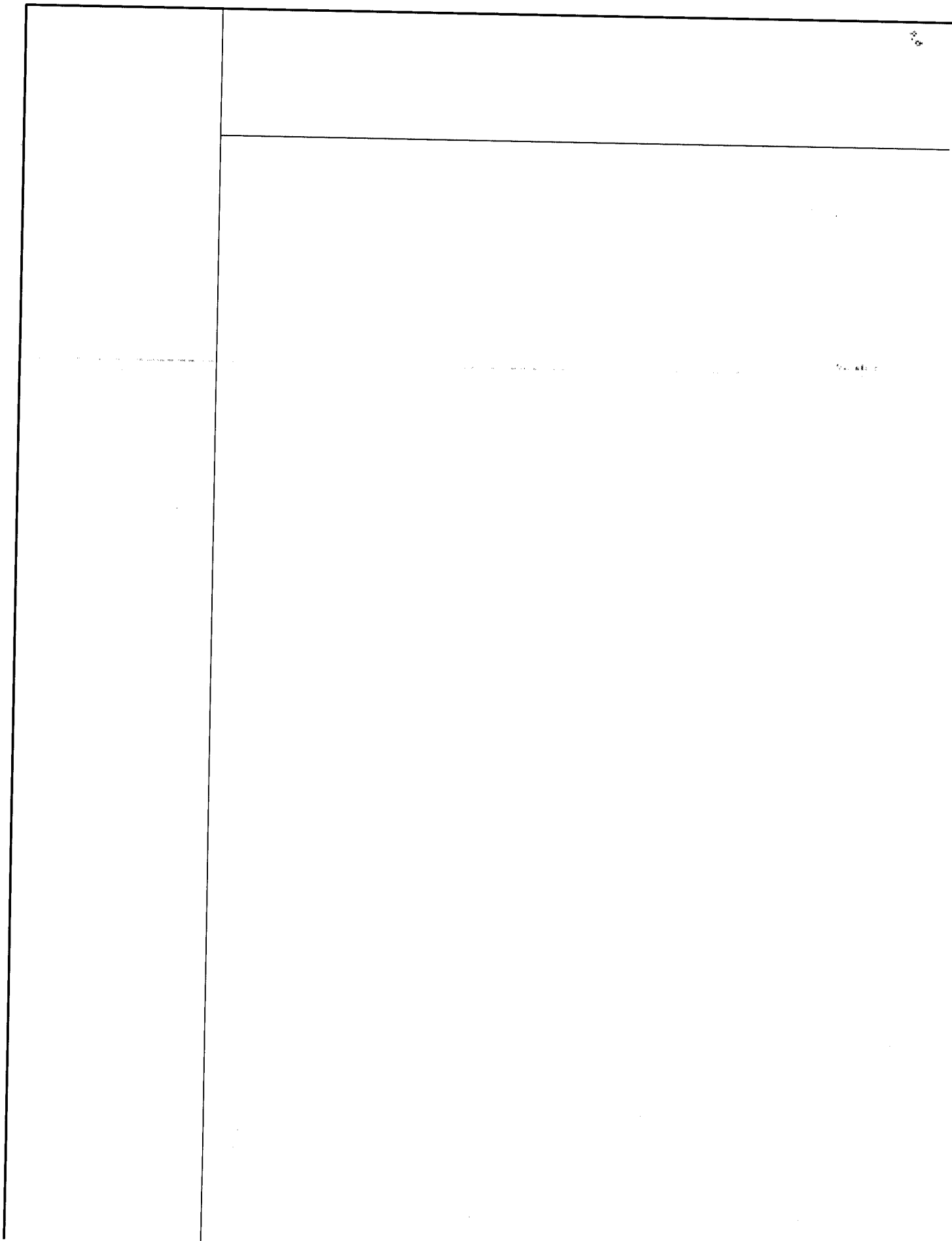
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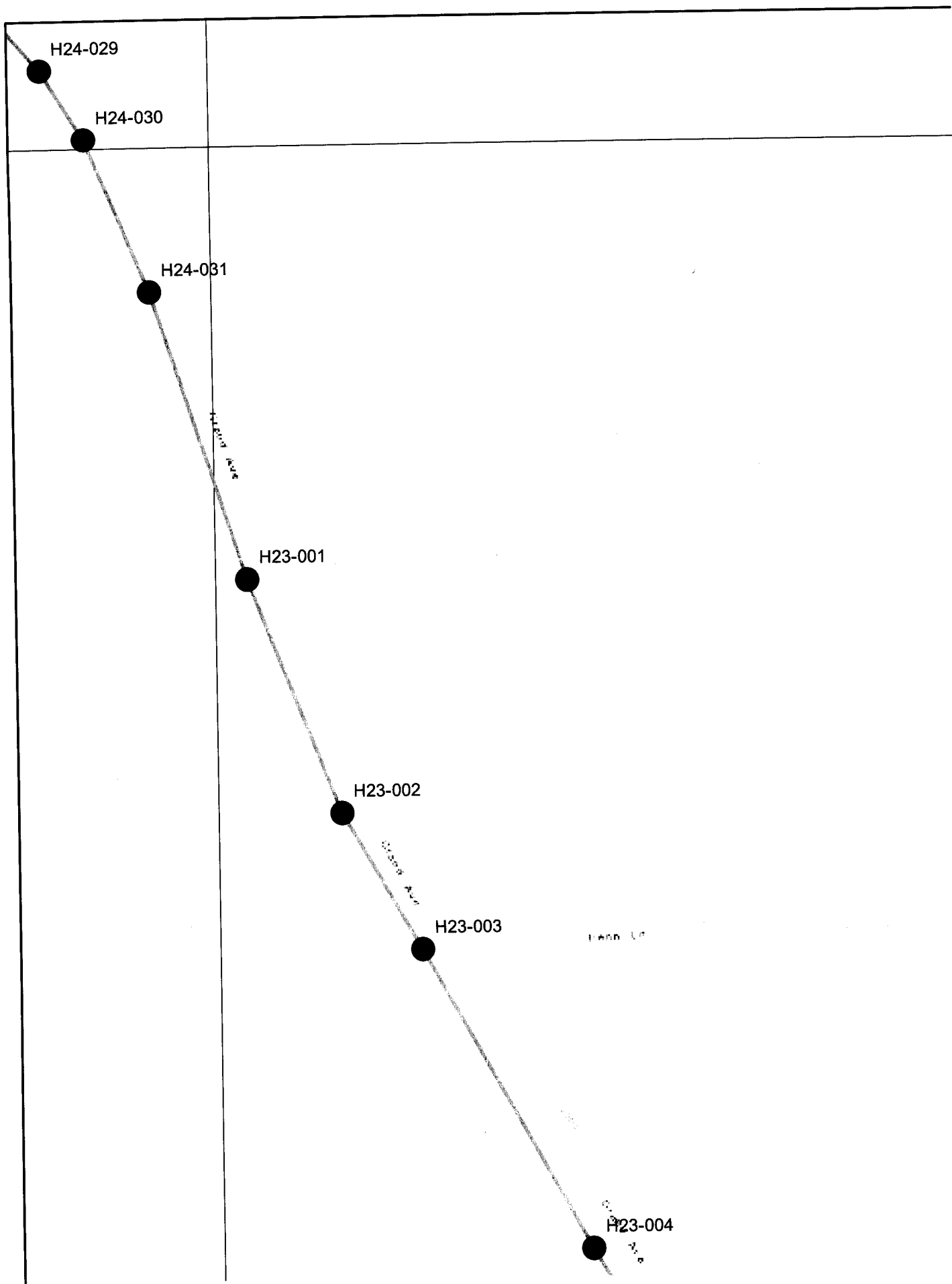
F23-033

F23-034

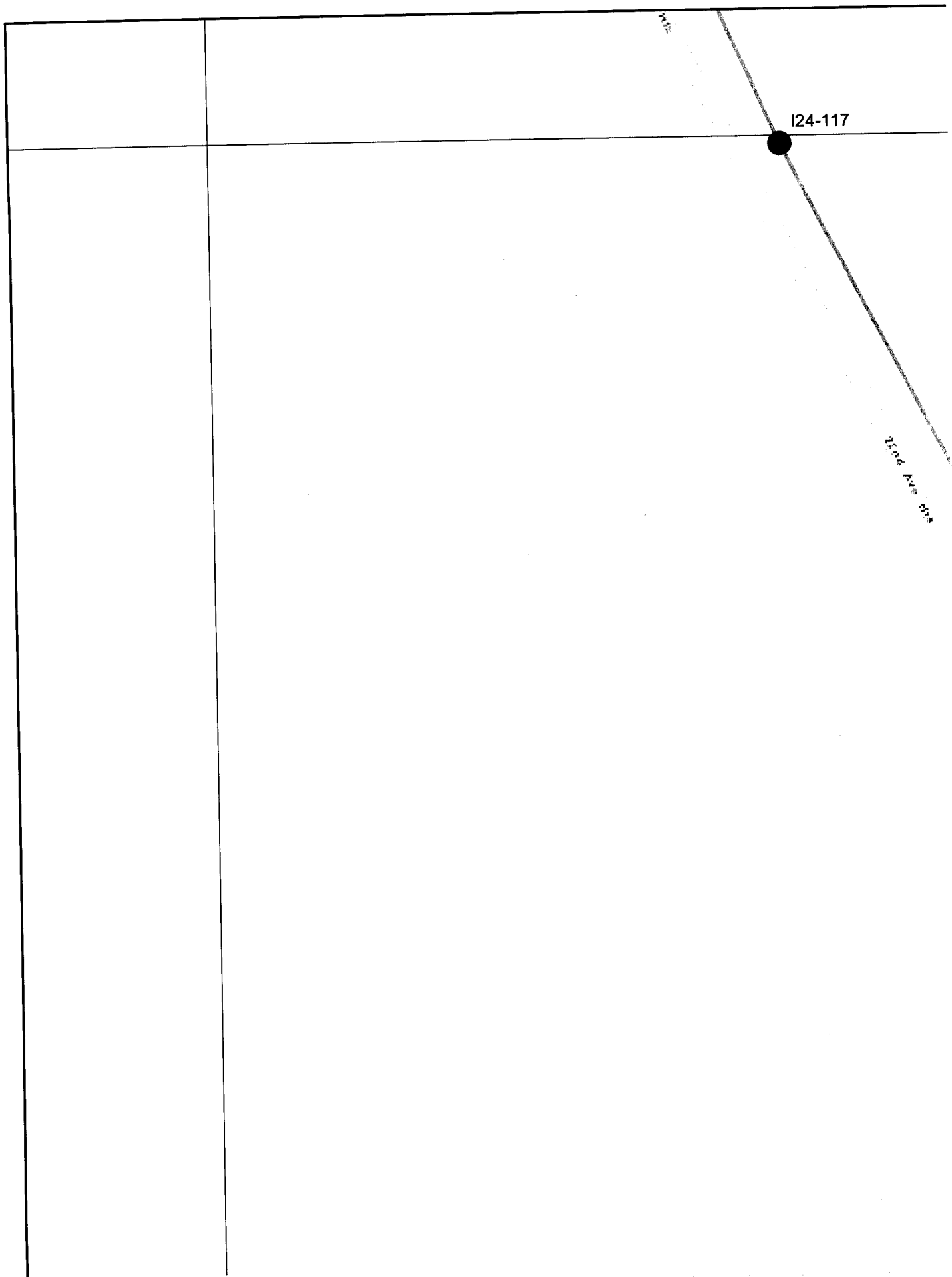
F23-032

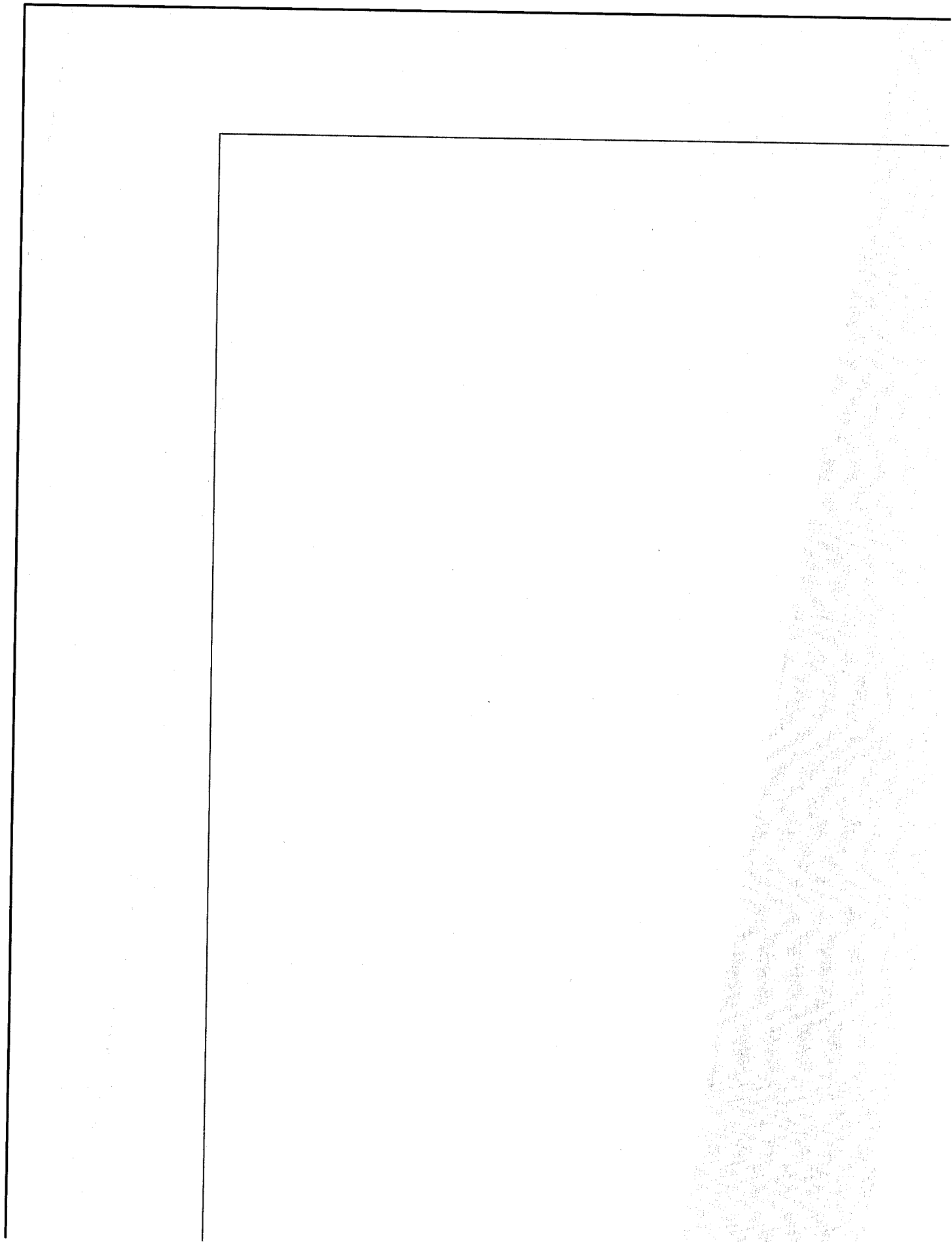


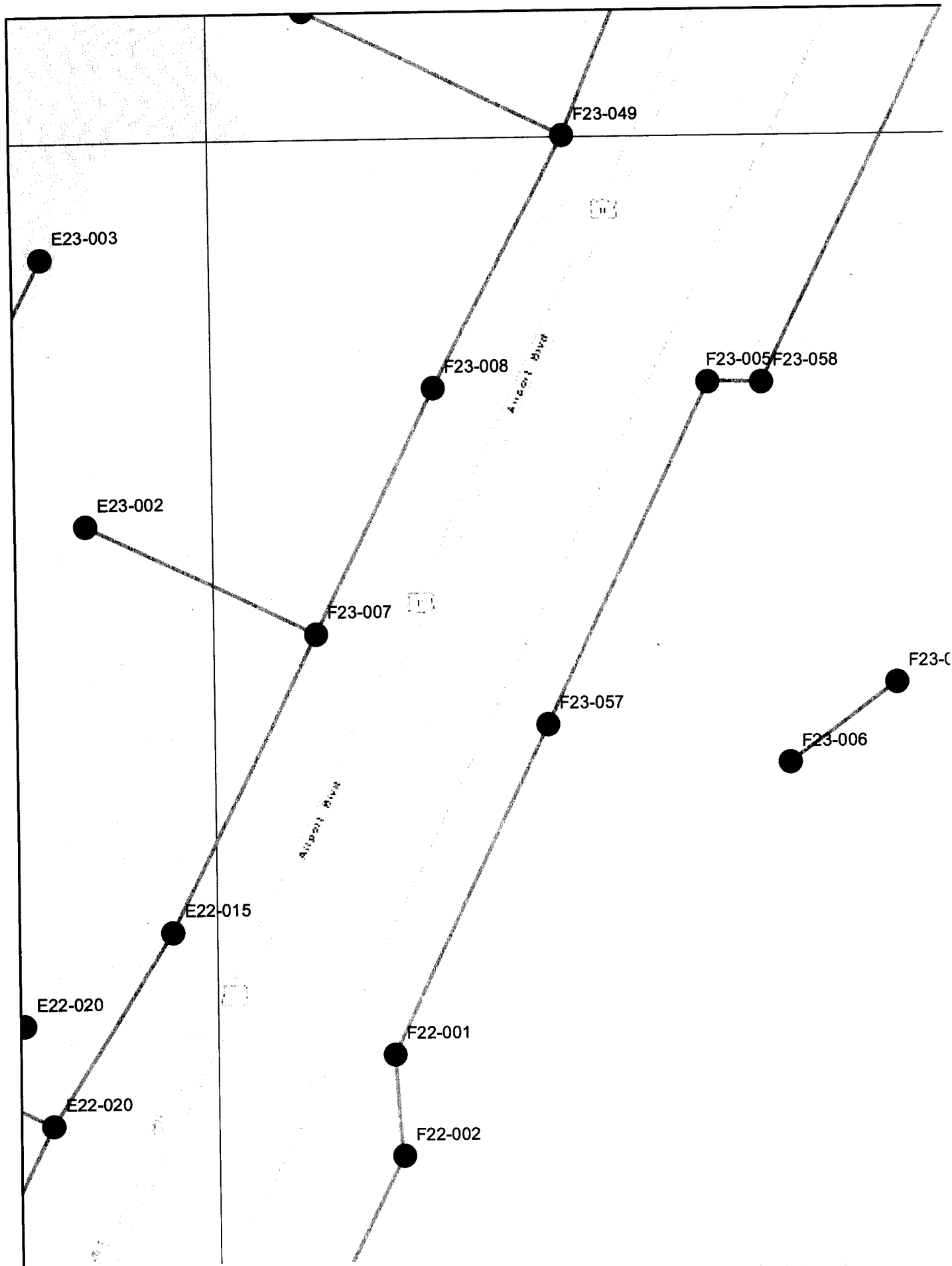


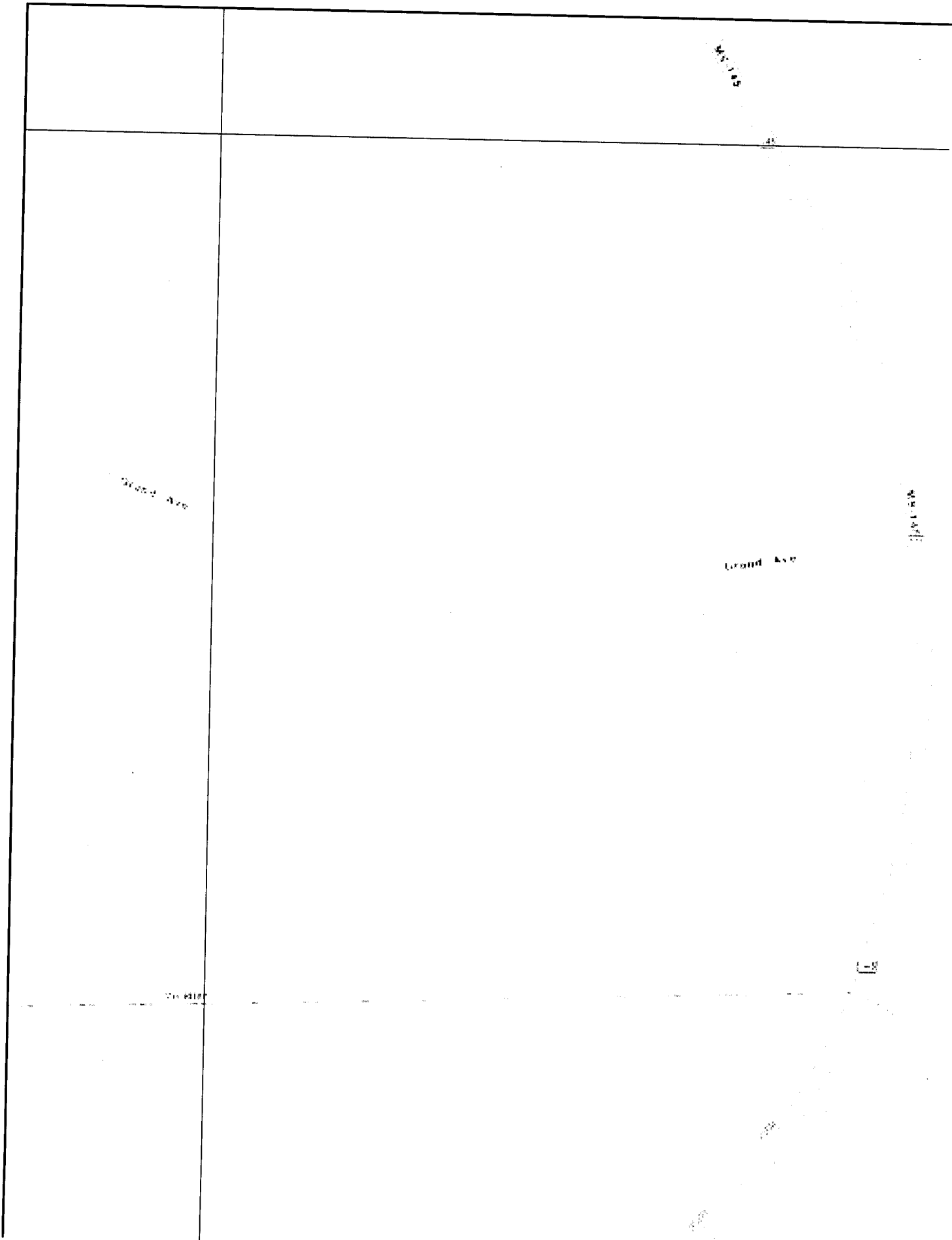


5 4x11x 01









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| Work Order Number | Complaint Numb Key | Complaint Location |
|-------------------|--------------------|-------------------------------------|
| Formula | Formula | Formula |
| 12-267-497 | 12-1900 | 301 63RD PLACE |
| 12-267-497 | 12-1900 | 301 63RD PLACE |
| 11-267-236 | 11-1911 | 2419 35TH AVENUE |
| 11-267-236 | 11-1911 | 2419 35TH AVENUE |
| 11-267-237 | 11-1912 | 2400 35TH AVENUE |
| 11-267-237 | 11-1912 | 2400 35TH AVENUE |
| 12-267-498 | 12-1913 | O AVENUE / 55TH STREET |
| 12-267-498 | 12-1913 | O AVENUE / 55TH STREET |
| 12-267-499 | 12-1914 | 6816 8TH PLACE |
| 12-267-499 | 12-1914 | 6816 8TH PLACE |
| 12-267-500 | 12-1915 | 5721 HWY 39 N |
| 12-267-500 | 12-1915 | 5721 HWY 39 N |
| 12-267-501 | 12-1922 | 2310 HWY 45 N / JOHNSON MOBILE HOME |
| 12-267-501 | 12-1922 | 2310 HWY 45 N / JOHNSON MOBILE HOME |
| 12-267-501 | 12-1922 | 2310 HWY 45 N / JOHNSON MOBILE HOME |
| 12-267-501 | 12-1922 | 2310 HWY 45 N / JOHNSON MOBILE HOME |
| 12-267-501 | 12-1922 | 2310 HWY 45 N / JOHNSON MOBILE HOME |
| 12-267-501 | 12-1922 | 2310 HWY 45 N / JOHNSON MOBILE HOME |
| 12-267-502 | 12-1923 | 4416 26TH STREET |
| 12-267-502 | 12-1923 | 4416 26TH STREET |
| 12-267-503 | 12-1925 | 2037 STATE BLVD |
| 12-267-503 | 12-1925 | 2037 STATE BLVD |
| 11-267-238 | 11-1928 | 13TH AVENUE 20TH STREET |
| 11-267-239 | 11-1930 | 6TH STREET 27TH AVENUE |
| 11-267-239 | 11-1930 | 6TH STREET 27TH AVENUE |
| 12-267-504 | 12-1931 | 8TH STREET / 25TH AVENUE |
| 12-267-504 | 12-1931 | 8TH STREET / 25TH AVENUE |
| 12-267-504 | 12-1931 | 8TH STREET / 25TH AVENUE |
| 11-267-240 | 11-1932 | 5904 2ND STREET |
| 11-267-242 | 11-1934 | 6510 NORTH HILLS STREET |
| 11-267-242 | 11-1934 | 6510 NORTH HILLS STREET |
| 11-267-243 | 11-1941 | 18TH AVENUE 17TH STREET |
| 12-267-505 | 12-1953 | 1723 16TH AVENUE |
| 12-267-505 | 12-1953 | 1723 16TH AVENUE |
| 12-267-506 | 12-1954 | 2201 39TH AVENUE |
| 12-267-506 | 12-1954 | 2201 39TH AVENUE |
| 12-267-507 | 12-1959 | 41ST STREET / 35TH AVENUE |
| 12-267-507 | 12-1959 | 41ST STREET / 35TH AVENUE |
| 12-267-507 | 12-1959 | 41ST STREET / 35TH AVENUE |
| 12-267-507 | 12-1959 | 41ST STREET / 35TH AVENUE |
| 12-267-508 | 12-1961 | 910 23RD AVENUE |
| 12-267-508 | 12-1961 | 910 23RD AVENUE |
| 12-267-509 | 12-1962 | 45TH AVENUE BTWN 9TH / 10TH STREETS |
| 12-267-509 | 12-1962 | 45TH AVENUE BTWN 9TH / 10TH STREETS |
| 12-267-510 | 12-1963 | 23RD AVENUE / 9TH STREET |
| 12-267-510 | 12-1963 | 23RD AVENUE / 9TH STREET |
| 12-267-511 | 12-1964 | 5721 HWY 39 N |
| 12-267-511 | 12-1964 | 5721 HWY 39 N |
| 12-267-511 | 12-1964 | 5721 HWY 39 N |
| 12-267-512 | 12-1973 | 320 BRIARWOOD BLVD |
| 12-267-512 | 12-1973 | 320 BRIARWOOD BLVD |
| 12-267-513 | 12-1975 | 1906 26TH AVENUE |
| 12-267-513 | 12-1975 | 1906 26TH AVENUE |
| 12-267-14 | 12-85 | WASTEWATER TREATMENT PLANT |

| Work Order Date | Complaint Year | Work Order Dept | Complaint Seq Num | Comment Type | Comment Type Description |
|-----------------|----------------|-----------------|-------------------|--------------|--------------------------|
| Formula | PWCOYR | PWWDDP | PWCONO | PWTYPE | |
| 06072012 | 12 | 267 | 497 | WO | Work Order Comment |
| 06072012 | 12 | 267 | 497 | WP | Completed Comments |
| 05112011 | 11 | 267 | 236 | WO | Work Order Comment |
| 05112011 | 11 | 267 | 236 | WO | Work Order Comment |
| 05112011 | 11 | 267 | 237 | WO | Work Order Comment |
| 05112011 | 11 | 267 | 237 | WO | Work Order Comment |
| 06082012 | 12 | 267 | 498 | WO | Work Order Comment |
| 06082012 | 12 | 267 | 498 | WP | Completed Comments |
| 06082012 | 12 | 267 | 499 | WO | Work Order Comment |
| 06082012 | 12 | 267 | 499 | WP | Completed Comments |
| 06082012 | 12 | 267 | 500 | WO | Work Order Comment |
| 06082012 | 12 | 267 | 500 | WP | Completed Comments |
| 06112012 | 12 | 267 | 501 | WO | Work Order Comment |
| 06112012 | 12 | 267 | 501 | WO | Work Order Comment |
| 06112012 | 12 | 267 | 501 | WO | Work Order Comment |
| 06112012 | 12 | 267 | 501 | WO | Work Order Comment |
| 06112012 | 12 | 267 | 501 | WP | Completed Comments |
| 06112012 | 12 | 267 | 501 | WP | Completed Comments |
| 06112012 | 12 | 267 | 502 | WO | Work Order Comment |
| 06112012 | 12 | 267 | 502 | WP | Completed Comments |
| 06112012 | 12 | 267 | 503 | WO | Work Order Comment |
| 06112012 | 12 | 267 | 503 | WP | Completed Comments |
| 05122011 | 11 | 267 | 238 | WO | Work Order Comment |
| 05122011 | 11 | 267 | 239 | WO | Work Order Comment |
| 05122011 | 11 | 267 | 239 | WP | Completed Comments |
| 06122012 | 12 | 267 | 504 | WO | Work Order Comment |
| 06122012 | 12 | 267 | 504 | WO | Work Order Comment |
| 06122012 | 12 | 267 | 504 | WP | Completed Comments |
| 05122011 | 11 | 267 | 240 | WO | Work Order Comment |
| 05122011 | 11 | 267 | 242 | WO | Work Order Comment |
| 05122011 | 11 | 267 | 242 | WP | Completed Comments |
| 05122011 | 11 | 267 | 243 | WO | Work Order Comment |
| 06142012 | 12 | 267 | 505 | WO | Work Order Comment |
| 06142012 | 12 | 267 | 505 | WP | Completed Comments |
| 06142012 | 12 | 267 | 506 | WO | Work Order Comment |
| 06142012 | 12 | 267 | 506 | WP | Completed Comments |
| 06152012 | 12 | 267 | 507 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 507 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 507 | WP | Completed Comments |
| 06152012 | 12 | 267 | 507 | WP | Completed Comments |
| 06152012 | 12 | 267 | 508 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 508 | WP | Completed Comments |
| 06152012 | 12 | 267 | 509 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 509 | WP | Completed Comments |
| 06152012 | 12 | 267 | 510 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 510 | WP | Completed Comments |
| 06152012 | 12 | 267 | 511 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 511 | WO | Work Order Comment |
| 06152012 | 12 | 267 | 511 | WP | Completed Comments |
| 06152012 | 12 | 267 | 511 | WP | Completed Comments |
| 06192012 | 12 | 267 | 512 | WO | Work Order Comment |
| 06192012 | 12 | 267 | 512 | WP | Completed Comments |
| 06192012 | 12 | 267 | 513 | WO | Work Order Comment |
| 06192012 | 12 | 267 | 513 | WP | Completed Comments |
| 10172011 | 12 | 267 | 14 | WO | Work Order Comment |

Comment Line : Comment Line Number is the record key , maps the screen field to the file.

| Number | Comment |
|--------|--|
| PWCOL# | PWCOLI |
| 1 | SEWER LINE STOPPED UP |
| 1 | ON THE CUSTOMER |
| 1 | REPAIR SEWER CAVEIN |
| 3 | LOCATE #11051115030922 |
| 1 | REPAIR SEWER CAVE-IN |
| 3 | LOCATE #1105115050925 |
| 1 | REPAIR SEWER LINE |
| 1 | REPACK SEWER LINE |
| 1 | CHECK MANHOLE (ON THEM) |
| 1 | ON THE CUSTOMER |
| 1 | SEWAGE RUNNING INTO DITCH |
| 1 | ON THE CITY |
| 1 | SEWER TAP - TAP SIZE 4 INCH |
| 2 | LOCATE #12060414060816 |
| 3 | CONTRACTOR: CHARLES TIBBETTS |
| 4 | SEWER TAP ORDER #5135 |
| 1 | SEWER AND WATER TAP 2" AMD 3/4 WATER 3/4 CURB STOP, 3/4 |
| 2 | COPFFER 15 FT, 5/8 METER, NIPPLE |
| 1 | FLUSH SEWER LINE |
| 1 | ON THE CUSTOMER |
| 1 | FLUSH LINE |
| 1 | ON THE CUSTOMER |
| 1 | SEWER TAP |
| 1 | SEWER |
| 1 | ON CUSTOMER |
| 1 | REPAIR SEWER LINE |
| 2 | LOCATE #12060415040914 |
| 1 | REPAIR FIRE PLUG |
| 1 | SEWER LEAK |
| 1 | SEWER PROBLEM |
| 1 | ON CUSTOMER |
| 1 | LOCATE #11051211340478 |
| 1 | TUB AND TOILET BACKING UP (ON THEM) |
| 1 | ON THE CUSTOMER |
| 1 | SEWER WATER BACKING UP IN STREET (ON US) |
| 1 | ON THE CITY |
| 1 | SEWER LINE REPAIR |
| 2 | LOCATE #12061110200393 |
| 1 | USE 1-45 PVC X 4", 1-4" PVC TO CLAY COUPLING, 1-SECTION OF |
| 2 | SEWER PIPE 4" X 13 FT |
| 1 | SMOKE SEWER (NOTHING FOUND) |
| 1 | NO LEAK HERE |
| 1 | SMOKE SEWER |
| 1 | ON THE CUSTOMER |
| 1 | SMOKE SEWER |
| 1 | NO SMOKE |
| 1 | SEWER LINE REPAIR |
| 2 | LOCATE #12052913340773 |
| 1 | 8" SEWER LINE BROKE DOWN, USE 14 FT AND 4" OF PVC PIPE AND |
| 2 | 2-COUPLING AND BANDS |
| 1 | MANHOLE COVER MISSING |
| 1 | TURN OVER TO STREET DEPT - INLET GRATE MISSING |
| 1 | BACKUP ON SEWER (ON THEM) |
| 1 | ON THE CUSTOMER |
| 1 | FLUSH LINE |

| | | | | | | | | |
|------------|---------|-----------------------------------|----------|----|-----|--------|--------------------|--|
| 12-267-15 | 12-86 | 37TH AVENUE / 49TH COURT | 10172011 | 12 | 267 | 15 WO | Work Order Comment | 1 SEWER LEAK |
| 12-267-514 | 12-1986 | B STREET / MILLER TIRE COMPANY | 06202012 | 12 | 267 | 514 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-514 | 12-1986 | B STREET / MILLER TIRE COMPANY | 06202012 | 12 | 267 | 514 WP | Completed Comments | 1 SEWER LINE STOP UP |
| 12-267-515 | 12-1987 | 5716 20TH STREET EXTENSION | 06202012 | 12 | 267 | 515 WO | Work Order Comment | 1 BAD SEWER ODOR |
| 12-267-516 | 12-1988 | 2408 54TH AVENUE | 06202012 | 12 | 267 | 516 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-516 | 12-1988 | 2408 54TH AVENUE | 06202012 | 12 | 267 | 516 WP | Completed Comments | 1 ON THE CITY |
| 12-267-517 | 12-1989 | 24TH AVENUE BTWN 17TH /18TH AVES | 06202012 | 12 | 267 | 517 WO | Work Order Comment | 1 SMOKE SEWER (ROTTEN ROOTS-NO PROBLEM FOUND) |
| 12-267-517 | 12-1989 | 24TH AVENUE BTWN 17TH /18TH AVES | 06202012 | 12 | 267 | 517 WP | Completed Comments | 1 DID NOT FIND ANYTHING |
| 12-267-518 | 12-1995 | 1520 14TH AVENUE | 06212012 | 12 | 267 | 518 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-518 | 12-1995 | 1520 14TH AVENUE | 06212012 | 12 | 267 | 518 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-519 | 12-2002 | 4927 POPLAR SPRINGS DRIVE | 06222012 | 12 | 267 | 519 WO | Work Order Comment | 1 SEWER BACKUP (OPENED AND RUNNING) |
| 12-267-519 | 12-2002 | 4927 POPLAR SPRINGS DRIVE | 06222012 | 12 | 267 | 519 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-520 | 12-2003 | 4312 / 4303 35TH STREET | 06222012 | 12 | 267 | 520 WO | Work Order Comment | 1 RAW SEWAGE RUNNING INTO DITCH |
| 12-267-520 | 12-2003 | 4312 / 4303 35TH STREET | 06222012 | 12 | 267 | 520 WP | Completed Comments | 1 ON THE CITY |
| 12-267-521 | 12-2006 | 4412 INTERCHANGE ROAD | 06252012 | 12 | 267 | 521 WO | Work Order Comment | 1 SEWER PIPE LEAKING (ON THEM) |
| 12-267-521 | 12-2006 | 4412 INTERCHANGE ROAD | 06252012 | 12 | 267 | 521 WP | Completed Comments | 1 CUSTOMER SEWER LINE WAS BROKEN |
| 12-267-522 | 12-2007 | 4101 37TH STREET | 06252012 | 12 | 267 | 522 WO | Work Order Comment | 1 SEWER SMELL IN BATHROOM (ON THEM) |
| 12-267-522 | 12-2007 | 4101 37TH STREET | 06252012 | 12 | 267 | 522 WP | Completed Comments | 1 WAS NOT A PROBLEM ON THE CITY |
| 11-267-1 | 11-23 | 210 22ND AVENUE /WEIDMANN'S ALLEY | 10062010 | 11 | 267 | 23 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |
| 11-267-1 | 11-23 | 210 22ND AVENUE /WEIDMANN'S ALLEY | 10062010 | 11 | 267 | 23 WO | Work Order Comment | 3 LOCATE #10100616531123 |
| 11-267-2 | 11-25 | 4706 COUNTRY CLUB | 10062010 | 11 | 267 | 25 WO | Work Order Comment | 1 REPAIR SEWER |
| 11-267-2 | 11-25 | 4706 COUNTRY CLUB | 10062010 | 11 | 267 | 25 WO | Work Order Comment | 3 LOCATE #10083114360674 |
| 12-267-523 | 12-2024 | BONITA MALL PARKING LOT | 06262012 | 12 | 267 | 523 WO | Work Order Comment | 1 SEWER RUNNING INTO STORM DRAIN |
| 12-267-523 | 12-2024 | BONITA MALL PARKING LOT | 06262012 | 12 | 267 | 523 WP | Completed Comments | 1 SEWER LINE STOPPED UP |
| 12-267-524 | 12-2027 | 7TH STREET / 30TH AVENUE | 06262012 | 12 | 267 | 524 WO | Work Order Comment | 1 SEWER CAVE-IN IN CHURCH'S DRIVEWAY |
| 12-267-524 | 12-2027 | 7TH STREET / 30TH AVENUE | 06262012 | 12 | 267 | 524 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-525 | 12-2029 | BONITA LAKES MALL | 06272012 | 12 | 267 | 525 WO | Work Order Comment | 1 SEWER LEAK IN PARKING LOT BETWEEN SEARS AND THE FOOD COURT |
| 12-267-525 | 12-2029 | BONITA LAKES MALL | 06272012 | 12 | 267 | 525 WO | Work Order Comment | 2 ***** ON US ***** |
| 12-267-525 | 12-2029 | BONITA LAKES MALL | 06272012 | 12 | 267 | 525 WP | Completed Comments | 1 OUR SEWER LINE WAS STOPPED UP |
| 12-267-526 | 12-2030 | 4514 B PLACE | 06272012 | 12 | 267 | 526 WO | Work Order Comment | 1 NOTHING FOUND |
| 12-267-526 | 12-2030 | 4514 B PLACE | 06272012 | 12 | 267 | 526 WP | Completed Comments | 1 COULD NOT FIND A PROBLEM |
| 12-267-527 | 12-2031 | 1207 30TH AVE | 06272012 | 12 | 267 | 527 WO | Work Order Comment | 1 SEWER PROBLEM (ON THEM) |
| 12-267-527 | 12-2031 | 1207 30TH AVE | 06272012 | 12 | 267 | 527 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-528 | 12-2032 | 2408 54TH AVENUE | 06272012 | 12 | 267 | 528 WO | Work Order Comment | 1 SEWER BACKUP (ON THEM) |
| 12-267-528 | 12-2032 | 2408 54TH AVENUE | 06272012 | 12 | 267 | 528 WP | Completed Comments | 1 ON THE CUSTOMER |
| 11-267-251 | 11-2043 | 18TH AVENUE 5TH STREET | 05192011 | 11 | 267 | 251 WO | Work Order Comment | 1 2-8' C/PVC MISSION COUPLING |
| 11-267-251 | 11-2043 | 18TH AVENUE 5TH STREET | 05192011 | 11 | 267 | 251 WO | Work Order Comment | 2 10'8" SEWER PIPE |
| 11-267-252 | 11-2044 | 33RD AVENUE 33RD PLACE | 05192011 | 11 | 267 | 252 WO | Work Order Comment | 2 LOCATE #11051908130086 |
| 11-267-252 | 11-2044 | 33RD AVENUE 33RD PLACE | 05192011 | 11 | 267 | 252 WP | Completed Comments | 1 2-8' C/PVC MISSION COUPLING |
| 11-267-252 | 11-2044 | 33RD AVENUE 33RD PLACE | 05192011 | 11 | 267 | 252 WP | Completed Comments | 2 10' 8' SEWER PIPE |
| 11-267-253 | 11-2045 | 3024 56TH COURT | 05192011 | 11 | 267 | 253 WO | Work Order Comment | 1 SAID OURS LOOKS GOOD. |
| 11-267-254 | 11-2046 | 4920 24TH PLACE | 05192011 | 11 | 267 | 254 WO | Work Order Comment | 1 SEWER |
| 12-267-529 | 12-2046 | 4115 1ST PLACE | 06292012 | 12 | 267 | 529 WO | Work Order Comment | 1 SEWER SMELL |
| 12-267-529 | 12-2046 | 4115 1ST PLACE | 06292012 | 12 | 267 | 529 WP | Completed Comments | 1 ON THE CITY |
| 12-267-530 | 12-2047 | 1723 16TH AVENUE | 06292012 | 12 | 267 | 530 WO | Work Order Comment | 1 SEWER BACKUP |
| 12-267-530 | 12-2047 | 1723 16TH AVENUE | 06292012 | 12 | 267 | 530 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-531 | 12-2048 | 2304 FRONT STREET | 06292012 | 12 | 267 | 531 WO | Work Order Comment | 1 TOILET SLUGGISH WHEN FLUSHED |
| 12-267-531 | 12-2048 | 2304 FRONT STREET | 06292012 | 12 | 267 | 531 WP | Completed Comments | 1 COULD NOT FIND ANYTHING |
| 12-267-532 | 12-2061 | 1207 30TH AVENUE | 07032012 | 12 | 267 | 532 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 12-267-532 | 12-2061 | 1207 30TH AVENUE | 07032012 | 12 | 267 | 532 WP | Completed Comments | 1 USED 4" SEWER PIPE 18', 4 BAG OF CEMENT |
| 11-267-256 | 11-2073 | 2900 OAK DR | 05202011 | 11 | 267 | 256 WO | Work Order Comment | 1 SMOKE TO SEE IF CUSTOMER IS ON CITY SEWER |
| 12-267-533 | 12-2078 | 4004 44TH STREET | 07062012 | 12 | 267 | 533 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-533 | 12-2078 | 4004 44TH STREET | 07062012 | 12 | 267 | 533 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-534 | 12-2086 | 33RD PLACE / 33RD AVENUE | 07092012 | 12 | 267 | 534 WO | Work Order Comment | 1 SEWER ODOR (ON THEM) |
| 12-267-534 | 12-2086 | 33RD PLACE / 33RD AVENUE | 07092012 | 12 | 267 | 534 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-535 | 12-2087 | 7TH STREET / 30TH AVENUE | 07092012 | 12 | 267 | 535 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-535 | 12-2087 | 7TH STREET / 30TH AVENUE | 07092012 | 12 | 267 | 535 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-536 | 12-2092 | 4221 TERRY STREET | 07092012 | 12 | 267 | 536 WO | Work Order Comment | 1 SEWAGE BACKING UP (ON THEM) |
| 12-267-536 | 12-2092 | 4221 TERRY STREET | 07092012 | 12 | 267 | 536 WP | Completed Comments | 1 ON THE CUSTOMER |

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|------------|---------|-------------------------------------|----------|----|-----|--------|--------------------|--|
| 12-267-537 | 12-2101 | 45TH AVENUE BEFORE CEFCO | 07102012 | 12 | 267 | 537 WO | Work Order Comment | 1 CAVE-IN ON SEWER LINE |
| 12-267-537 | 12-2101 | 45TH AVENUE BEFORE CEFCO | 07102012 | 12 | 267 | 537 WP | Completed Comments | 1 USE A BAG OF CONCRETE MIX |
| 12-267-538 | 12-2104 | 1126 47TH AVENUE | 07102012 | 12 | 267 | 538 WO | Work Order Comment | 1 MANHOLE BACKING UP AND SEWER ODOR |
| 12-267-538 | 12-2104 | 1126 47TH AVENUE | 07102012 | 12 | 267 | 538 WP | Completed Comments | 1 ON THE CITY - MANHOLE WAS RUNNING OVER - UNSTOPPED MANHOLE |
| 12-267-538 | 12-2104 | 1126 47TH AVENUE | 07102012 | 12 | 267 | 538 WP | Completed Comments | 2 AND LIME IT OUT |
| 12-267-539 | 12-2105 | 45TH AVENUE BTWN 9TH / 10TH STREET | 07102012 | 12 | 267 | 539 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-539 | 12-2105 | 45TH AVENUE BTWN 9TH / 10TH STREET | 07102012 | 12 | 267 | 539 WP | Completed Comments | 1 BELL LEAKING WAS BROKEN |
| 11-267-260 | 11-2106 | 5330 16TH AVENUE | 05242011 | 11 | 267 | 260 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |
| 11-267-260 | 11-2106 | 5330 16TH AVENUE | 05242011 | 11 | 267 | 260 WO | Work Order Comment | 3 LOCATE #11052416281242 |
| 12-267-540 | 12-2106 | 20TH STREET EXT. BY SAMMIE DAVIDSON | 07102012 | 12 | 267 | 540 WO | Work Order Comment | 1 SEWER LATERL BROKE DOWN USED 9 FT 11 INCH OF STEEL PIPE |
| 12-267-540 | 12-2106 | 20TH STREET EXT. BY SAMMIE DAVIDSON | 07102012 | 12 | 267 | 540 WP | Completed Comments | 1 SEWER ODOR |
| 12-267-541 | 12-2107 | 4109 33RD AVENUE | 07102012 | 12 | 267 | 541 WO | Work Order Comment | 1 MANHOLE WAS STOPPED UP |
| 12-267-541 | 12-2107 | 4109 33RD AVENUE | 07102012 | 12 | 267 | 541 WP | Completed Comments | 1 WATER COMING OUT OF PVC PIPE AND SEWAGE SMELL |
| 12-267-542 | 12-2114 | 1126 47TH AVENUE | 07112012 | 12 | 267 | 542 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-542 | 12-2114 | 1126 47TH AVENUE | 07112012 | 12 | 267 | 542 WP | Completed Comments | 1 SEWAGE NEEDS CLEANING UP IN STREET AND LIME NEEDED |
| 11-267-261 | 11-2116 | 4915 37TH STREET | 05252011 | 11 | 267 | 261 WO | Work Order Comment | 1 ON THE CITY |
| 11-267-261 | 11-2116 | 4915 37TH STREET | 05252011 | 11 | 267 | 261 WO | Work Order Comment | 1 SEWER TAP |
| 11-267-261 | 11-2116 | 4915 37TH STREET | 05252011 | 11 | 267 | 261 WP | Completed Comments | 3 LOCATE #11052516080835 |
| 11-267-261 | 11-2116 | 4915 37TH STREET | 05252011 | 11 | 267 | 261 WP | Completed Comments | 1 USE TWO PVC 1" PIPE 26 FEET, (2) 13 FT PIPE - TAP TO MAKE |
| 11-267-262 | 11-2126 | 65TH AVE OLD 8TH STREET ROAD | 05312011 | 11 | 267 | 262 WP | Completed Comments | 2 MANHOLE |
| 12-267-543 | 12-2132 | 5601 N LAKE DRIVE | 07162012 | 12 | 267 | 543 WO | Work Order Comment | 1 4-BAGS OF CONCRETE TO REPAIR A SEWER LEAK ON A CAVE-IN |
| 12-267-544 | 12-2134 | 3210 36TH STREET | 07162012 | 12 | 267 | 544 WO | Work Order Comment | 1 MANHOLE CASTING NEEDS ATTENTION |
| 12-267-544 | 12-2134 | 3210 36TH STREET | 07162012 | 12 | 267 | 544 WP | Completed Comments | 1 FLUSH LINE |
| 11-267-263 | 11-2135 | 48TH AVENUE 9TH STREET | 05312011 | 11 | 267 | 263 WO | Work Order Comment | 1 FLUSH LINE |
| 11-267-263 | 11-2135 | 48TH AVENUE 9TH STREET | 05312011 | 11 | 267 | 263 WP | Completed Comments | 1 LOCATE #11053115161069 |
| 12-267-545 | 12-2135 | 4305 30TH STREET | 07162012 | 12 | 267 | 545 WO | Work Order Comment | 1 STREET DEPT WORK ON THIS CAVE-IN |
| 12-267-546 | 12-2143 | 37TH AVENUE / 11TH STREET | 07172012 | 12 | 267 | 546 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-547 | 12-2145 | HIGHLAND PARK (MCC SOFTBALL FIELD) | 07172012 | 12 | 267 | 547 WO | Work Order Comment | 1 MANHOLE LID |
| 12-267-547 | 12-2145 | HIGHLAND PARK (MCC SOFTBALL FIELD) | 07172012 | 12 | 267 | 547 WP | Completed Comments | 1 GIRL'S BATHROOM STOPPED UP |
| 12-267-548 | 12-2152 | 33RD AVENUE / 40TH STREET | 07182012 | 12 | 267 | 548 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-549 | 12-2158 | 4327 RUBUSH DRIVE | 07182012 | 12 | 267 | 549 WO | Work Order Comment | 1 MANHOLE NEEDS ATTENTION |
| 12-267-549 | 12-2158 | 4327 RUBUSH DRIVE | 07182012 | 12 | 267 | 549 WP | Completed Comments | 1 SEWER LINE STOPPED UP |
| 12-267-550 | 12-2159 | 22ND AVE HEIGHTS / LAKESIDE DRIVE | 07182012 | 12 | 267 | 550 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-551 | 12-2160 | 4606 46TH AVENUE | 07182012 | 12 | 267 | 551 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 12-267-551 | 12-2160 | 4606 46TH AVENUE | 07182012 | 12 | 267 | 551 WP | Completed Comments | 1 LINE NEEDS FLUSHING |
| 12-267-552 | 12-2162 | 1931 22ND AVENUE HEIGHTS | 07182012 | 12 | 267 | 552 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-552 | 12-2162 | 1931 22ND AVENUE HEIGHTS | 07182012 | 12 | 267 | 552 WP | Completed Comments | 1 FLUSH LINE (ON CUSTOMER) |
| 12-267-553 | 12-2163 | 3013 31ST STREET | 07182012 | 12 | 267 | 553 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-553 | 12-2163 | 3013 31ST STREET | 07182012 | 12 | 267 | 553 WP | Completed Comments | 1 FLUSH LINE (ON US) |
| 12-267-554 | 12-2173 | 604 63RD STREET | 07192012 | 12 | 267 | 554 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-554 | 12-2173 | 604 63RD STREET | 07192012 | 12 | 267 | 554 WO | Work Order Comment | 1 SEWER TAP |
| 12-267-554 | 12-2173 | 604 63RD STREET | 07192012 | 12 | 267 | 554 WP | Completed Comments | 2 LOCATE #12062817320947 |
| 12-267-555 | 12-2185 | 45TH AVENUE / PAULING STREET | 07232012 | 12 | 267 | 555 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-555 | 12-2185 | 45TH AVENUE / PAULING STREET | 07232012 | 12 | 267 | 555 WP | Completed Comments | 1 SEWER DRAIN STOPPED UP |
| 12-267-556 | 12-2186 | 10TH AVENUE BTWN 14TH / 15TH STREET | 07232012 | 12 | 267 | 556 WO | Work Order Comment | 1 ON THE CITY - SEWER LINE STOPPED UP |
| 11-267-264 | 11-2191 | 215 47TH AVENUE | 06132011 | 11 | 267 | 264 WO | Work Order Comment | 1 SMOKE SEWER |
| 11-267-264 | 11-2191 | 215 47TH AVENUE | 06132011 | 11 | 267 | 264 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |
| 11-267-264 | 11-2191 | 215 47TH AVENUE | 06132011 | 11 | 267 | 264 WO | Work Order Comment | 3 LOCATE #11060909200246 |
| 12-267-557 | 12-2194 | 1303 48TH AVENUE | 07242012 | 12 | 267 | 264 WP | Completed Comments | 1 REPAIR 3/4 WATER SERVICE |
| 12-267-557 | 12-2194 | 1303 48TH AVENUE | 07242012 | 12 | 267 | 557 WO | Work Order Comment | 1 SEWER CAVE |
| 12-267-557 | 12-2194 | 1303 48TH AVENUE | 07242012 | 12 | 267 | 557 WO | Work Order Comment | 2 LOCATE #12062009060261 |
| 12-267-557 | 12-2194 | 1303 48TH AVENUE | 07242012 | 12 | 267 | 557 WP | Completed Comments | 1 USE 1-FT OF 8" PVC PIPE AND 2-8" PVC TP CLAY COUPLING AND |
| 12-267-558 | 12-2196 | 29TH AVENUE / CHIP MILL | 07242012 | 12 | 267 | 558 WO | Work Order Comment | 2 2-BANDS |
| 12-267-559 | 12-2197 | 5008 1ST STREET | 07242012 | 12 | 267 | 559 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-559 | 12-2197 | 5008 1ST STREET | 07242012 | 12 | 267 | 559 WP | Completed Comments | 1 WATER BACKING UP IN TOILET |
| 12-267-560 | 12-2198 | 6216 14TH AVENUE | 07242012 | 12 | 267 | 560 WO | Work Order Comment | 1 ON CUSTOMER |
| 12-267-560 | 12-2198 | 6216 14TH AVENUE | 07242012 | 12 | 267 | 560 WP | Completed Comments | 1 SEWER BACKING UP |
| 12-267-561 | 12-2199 | BONITA LAKES MALL | 07242012 | 12 | 267 | 561 WO | Work Order Comment | 1 PUT RED HOT IN SEWER LINE |
| | | | | | | | | 1 PUT REDHOT IN MANHOLE |

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| 12-267-561 | 12-2199 | BONITA LAKES MALL | 07242012 | 12 | 267 | 561 WP | Completed Comments | 1 REPLACE COVER |
| 12-267-562 | 12-2206 | 215 48TH AVENUE | 07252012 | 12 | 267 | 562 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-562 | 12-2206 | 215 48TH AVENUE | 07252012 | 12 | 267 | 562 WP | Completed Comments | 1 4" C/PVC MISSION COUPLING |
| 12-267-563 | 12-2208 | 29TH AVENUE / CHIP MILL | 07252012 | 12 | 267 | 563 WO | Work Order Comment | 1 PULL SEWER PLUG |
| 12-267-564 | 12-2209 | 3802-1/2 43RD STREET | 07252012 | 12 | 267 | 564 WO | Work Order Comment | 1 CUSTOMER STATES SEWER LINE IS STOPPED UP |
| 12-267-564 | 12-2209 | 3802-1/2 43RD STREET | 07252012 | 12 | 267 | 564 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-565 | 12-2210 | 5716 20TH STREET EXTENSION | 07252012 | 12 | 267 | 565 WO | Work Order Comment | 1 STRONG SEWER ODOR |
| 12-267-565 | 12-2210 | 5716 20TH STREET EXTENSION | 07252012 | 12 | 267 | 565 WP | Completed Comments | 1 ON THE CUSTOMER |
| 11-267-265 | 11-2212 | 2803 26TH STREET | 06152011 | 11 | 267 | 265 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |
| 11-267-265 | 11-2212 | 2803 26TH STREET | 06152011 | 11 | 267 | 265 WO | Work Order Comment | 3 LOCATE #11061510240399 |
| 11-267-265 | 11-2212 | 2803 26TH STREET | 06152011 | 11 | 267 | 265 WP | Completed Comments | 1 REPAIR 8" SEWER |
| 12-267-566 | 12-2228 | WASTEWATER TREATMENT PLANT-SOUTH | 07272012 | 12 | 267 | 566 WO | Work Order Comment | 1 4" SEWER LINE |
| 12-267-566 | 12-2228 | WASTEWATER TREATMENT PLANT-SOUTH | 07272012 | 12 | 267 | 566 WP | Completed Comments | 1 USE TREN RING AND 2-90', 1-45'BEND, 4-STEEL PIPE, 18' LONG |
| 12-267-567 | 12-2231 | 4705 PAULING STREET | 07272012 | 12 | 267 | 567 WO | Work Order Comment | 1 CUSTOMER COMPLAINED SEWER LINE WAS STOPPED UP |
| 12-267-567 | 12-2231 | 4705 PAULING STREET | 07272012 | 12 | 267 | 567 WP | Completed Comments | 1 ON THE CUSTOMER |
| 11-267-266 | 11-2237 | 1719 HWY 39 N | 06202011 | 11 | 267 | 266 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-266 | 11-2237 | 1719 HWY 39 N | 06202011 | 11 | 267 | 266 WO | Work Order Comment | 3 EMERGENCY LOCATE #11062012170217 |
| 11-267-266 | 11-2237 | 1719 HWY 39 N | 06202011 | 11 | 267 | 266 WP | Completed Comments | 1 SEWER LINE OK NO PROBLEM |
| 11-267-266 | 11-2237 | 1719 HWY 39 N | 06222011 | 11 | 267 | 267 WO | Work Order Comment | 1 SEWER TAP 4' STREET CUT |
| 11-267-267 | 11-2246 | 4712 11TH STREET | 06222011 | 11 | 267 | 267 WO | Work Order Comment | 3 LOCATE #11062207370038 |
| 11-267-267 | 11-2246 | 4712 11TH STREET | 06222011 | 11 | 267 | 267 WO | Work Order Comment | 2 PLUMMBER - DARRYL ROWZEE |
| 11-267-267 | 11-2246 | 4712 11TH STREET | 06222011 | 11 | 267 | 267 WP | Completed Comments | 1 TAP OUT OF THE MANHOLE USE 18 FT AND 10' OF 4" SEWER PIPE |
| 11-267-267 | 11-2246 | 4712 11TH STREET | 06222011 | 11 | 267 | 267 WP | Completed Comments | 2 1-BAG OF CONCRETE MIX |
| 12-267-568 | 12-2253 | 3110 7TH STREET | 07312012 | 12 | 267 | 568 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-568 | 12-2253 | 3110 7TH STREET | 07312012 | 12 | 267 | 568 WO | Work Order Comment | 2 LOCATE #12072609550271 |
| 12-267-568 | 12-2253 | 3110 7TH STREET | 07312012 | 12 | 267 | 568 WP | Completed Comments | 1 5' 6" SEWER PIPE |
| 12-267-568 | 12-2253 | 3110 7TH STREET | 07312012 | 12 | 267 | 568 WP | Completed Comments | 2 2-6' C/PVC MISSION COUPLING |
| 12-267-569 | 12-2255 | 29TH AVENUE / VALLY STREET | 07312012 | 12 | 267 | 569 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-569 | 12-2255 | 29TH AVENUE / VALLY STREET | 07312012 | 12 | 267 | 569 WP | Completed Comments | 1 SMOKED SEWER LINE ON CAVE-IN |
| 11-267-268 | 11-2258 | P S DRIVE / 68 CT | 06232011 | 11 | 267 | 268 WO | Work Order Comment | 1 SEWER TAP |
| 11-267-268 | 11-2258 | P S DRIVE / 68 CT | 06232011 | 11 | 267 | 268 WO | Work Order Comment | 3 LOCATE #11062307140019 |
| 11-267-269 | 11-2263 | 906 48TH AVENUE | 06232011 | 11 | 267 | 269 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |
| 11-267-269 | 11-2263 | 906 48TH AVENUE | 06232011 | 11 | 267 | 269 WO | Work Order Comment | 3 LOCATE #11062309380260 |
| 11-267-269 | 11-2263 | 906 48TH AVENUE | 06232011 | 11 | 267 | 269 WP | Completed Comments | 1 TURNED OVE RTO STREET |
| 11-267-271 | 11-2266 | 5028 22ND STREET | 06232011 | 11 | 267 | 271 WO | Work Order Comment | 1 SEWER TAP |
| 11-267-271 | 11-2266 | 5028 22ND STREET | 06232011 | 11 | 267 | 271 WO | Work Order Comment | 3 LOCATE #11062309420276 |
| 11-267-271 | 11-2266 | 5028 22ND STREET | 06232011 | 11 | 267 | 271 WP | Completed Comments | 1 SEWER TAP 4" |
| 11-267-271 | 11-2266 | 5028 22ND STREET | 06232011 | 11 | 267 | 271 WP | Completed Comments | |

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| 12-267-576 | 12-2284 | 402 SWEET GUM BOTTOM ROAD | 08032012 | 12 | 267 | 576 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-577 | 12-2292 | TOMMY WEBB DRIVE / PILOT TRUCK STOP | 08062012 | 12 | 267 | 577 WO | Work Order Comment | 1 MANHOLE COVER OFF WHERE POWER COMPANY WAS WORKING |
| 12-267-578 | 12-2293 | 3615 24TH STREET | 08062012 | 12 | 267 | 578 WO | Work Order Comment | 1 RAISE MANHOLE |
| 12-267-578 | 12-2293 | 3615 24TH STREET | 08062012 | 12 | 267 | 578 WP | Completed Comments | 1 PUT NEW COVER ON MANHOLE |
| 12-267-579 | 12-2294 | SOUTH FRONTAGE ROAD BY R V PARK | 08062012 | 12 | 267 | 579 WO | Work Order Comment | 1 MANHOLE COVER NEEDS ATTENTION |
| 12-267-579 | 12-2294 | SOUTH FRONTAGE ROAD BY R V PARK | 08062012 | 12 | 267 | 579 WP | Completed Comments | 1 PUT A NEW COVER ON MANHOLE |
| 12-267-580 | 12-2299 | 3804 44TH STREET | 08062012 | 12 | 267 | 580 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-580 | 12-2299 | 3804 44TH STREET | 08062012 | 12 | 267 | 580 WP | Completed Comments | 1 ON THE CITY |
| 12-267-581 | 12-2313 | HWY 11 S SEWER PLANT | 08072012 | 12 | 267 | 581 WO | Work Order Comment | 1 CLEAN UP |
| 12-267-582 | 12-2315 | 530 46TH AVENUE | 08072012 | 12 | 267 | 582 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-582 | 12-2315 | 530 46TH AVENUE | 08072012 | 12 | 267 | 582 WP | Completed Comments | 1 67-8 UNSTOP SEWER LINE |
| 12-267-583 | 12-2317 | 953 BONITA DRIVE | 08082012 | 12 | 267 | 583 WO | Work Order Comment | 1 SEWER TAP - 4 INCH |
| 12-267-583 | 12-2317 | 953 BONITA DRIVE | 08082012 | 12 | 267 | 583 WO | Work Order Comment | 2 LOCATE #1208011363550622 |
| 12-267-583 | 12-2317 | 953 BONITA DRIVE | 08082012 | 12 | 267 | 583 WO | Work Order Comment | 4 SEWER TAP ORDER #5138 |
| 12-267-583 | 12-2317 | 953 BONITA DRIVE | 08082012 | 12 | 267 | 583 WP | Completed Comments | 3 NAME: BILL POWELL CONST. |
| 12-267-583 | 12-2317 | 953 BONITA DRIVE | 08082012 | 12 | 267 | 583 WP | Completed Comments | 1 3 SECTION 4" SEWER PIPE |
| 12-267-584 | 12-2319 | 5501 OLD HWY 80 | 08082012 | 12 | 267 | 584 WO | Work Order Comment | 2 2- BAG OF CEMENT |
| 12-267-584 | 12-2319 | 5501 OLD HWY 80 | 08082012 | 12 | 267 | 584 WO | Work Order Comment | 1 SEWER TAP - TAP SIZE: 6 INCH |
| 12-267-584 | 12-2319 | 5501 OLD HWY 80 | 08082012 | 12 | 267 | 584 WO | Work Order Comment | 2 LOCATE #12080308200108 |
| 12-267-584 | 12-2319 | 5501 OLD HWY 80 | 08082012 | 12 | 267 | 584 WO | Work Order Comment | 3 NAME MCC-ADULT EDUCATION GENERAL CONTRACTOR: TOMMY MAXWELL |
| 12-267-585 | 12-2320 | 44TH STREET BTWN 35TH / 36TH AVES | 08082012 | 12 | 267 | 585 WO | Work Order Comment | 4 SEWER TAP ORDER #5137 |
| 12-267-585 | 12-2320 | 44TH STREET BTWN 35TH / 36TH AVES | 08082012 | 12 | 267 | 585 WP | Completed Comments | 1 SEWAGE LEAKING INTO BRANCH |
| 12-267-586 | 12-2321 | 530 46TH AVENUE | 08082012 | 12 | 267 | 586 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-586 | 12-2321 | 530 46TH AVENUE | 08082012 | 12 | 267 | 586 WP | Completed Comments | 1 SEWER PROBLEM |
| 12-267-587 | 12-2322 | 2106 11TH AVENUE | 08082012 | 12 | 267 | 587 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-587 | 12-2322 | 2106 11TH AVENUE | 08082012 | 12 | 267 | 587 WP | Completed Comments | 1 SEWER LINE STOPPED UP (ON THEM) |
| 11-267-273 | 11-2328 | 601 52ND AVENUE | 07072011 | 11 | 267 | 273 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 11-267-273 | 11-2328 | 601 52ND AVENUE | 07072011 | 11 | 267 | 273 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-273 | 11-2328 | 601 52ND AVENUE | 07072011 | 11 | 267 | 273 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 12-267-588 | 12-2336 | ST LUKE STREET / ST JOHN STREET | 08102012 | 12 | 267 | 588 WO | Work Order Comment | 1 FLUSH OUT THE LINE |
| 12-267-588 | 12-2336 | ST LUKE STREET / ST JOHN STREET | 08102012 | 12 | 267 | 588 WP | Completed Comments | 1 CLEAN UP SEWER |
| 12-267-589 | 12-2349 | 3519 32ND STREET | 08132012 | 12 | 267 | 589 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-589 | 12-2349 | 3519 32ND STREET | 08132012 | 12 | 267 | 589 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-589 | 12-2349 | 3519 32ND STREET | 08132012 | 12 | 267 | 589 WP | Completed Comments | 2 LOCATE #12080613340641 |
| 12-267-589 | 12-2349 | 3519 32ND STREET | 08132012 | 12 | 267 | 589 WP | Completed Comments | 1 USE 8" TEE, 2-8" COUPLING AND 4 FT OF 4" PVC PIPE , 2-4" |
| 12-267-590 | 11-2352 | 2538 28TH AVENUE | 08132012 | 12 | 267 | 590 WO | Work Order Comment | 2 COUPLING |
| 11-267-274 | 11-2354 | 1803 10TH AVENUE | 07122011 | 11 | 267 | 274 WO | Work Order Comment | 1 SEWER TAP |
| 11-267-274 | 11-2354 | 1803 10TH AVENUE | 07122011 | 11 | 267 | 274 WP | Completed Comments | 1 SEWER PROBLEM |
| 12-267-591 | 12-2354 | 604 63RD STREET | 08132012 | 12 | 267 | 591 WO | Work Order Comment | 1 ON CUSTOMER |
| 12-267-591 | 12-2354 | 604 63RD STREET | 08132012 | 12 | 267 | 591 WO | Work Order Comment | 1 SEWER TAP - TAP SIZE: 4" |
| 12-267-591 | 12-2354 | 604 63RD STREET | 08132012 | 12 | 267 | 591 WO | Work Order Comment | 3 NAME: BETTY ALFORD PLUMBER: PAUL SINGLEY |
| 12-267-592 | 12-2358 | 36TH STREET / 35TH AVENUE | 08142012 | 12 | 267 | 592 WO | Work Order Comment | 4 SEWER TAP ORDER #5136 |
| 12-267-592 | 12-2358 | 36TH STREET / 35TH AVENUE | 08142012 | 12 | 267 | 592 WP | Completed Comments | 1 SEWER CAVE-IN |
| 12-267-592 | 12-2358 | 36TH STREET / 35TH AVENUE | 08142012 | 12 | 267 | 592 WP | Completed Comments | 1 CAVE-IN AT MANHOLE, SEWER LEAKING IN AND OUT OF MANHOLE. |
| 11-267-275 | 11-2368 | 6510 NHS | 07132011 | 11 | 267 | 275 WO | Work Order Comment | 2 USE 3 BAGS OF CONCRETE |
| 11-267-275 | 11-2368 | 6510 NHS | 07132011 | 11 | 267 | 275 WP | Completed Comments | 1 SEWER - REPAIR LATERAL |
| 11-267-276 | 11-2370 | 3429 29TH AVE | 07132011 | 11 | 267 | 276 WO | Work Order Comment | 1 ON US |
| 11-267-277 | 11-2373 | 5317 33RD PLACE | 07132011 | 11 | 267 | 277 WO | Work Order Comment | 1 SEWER MAIN - SMOKE |
| 11-267-277 | 11-2373 | 5317 33RD PLACE | 07132011 | 11 | 267 | 277 WP | Completed Comments | 1 CHECK MANHOLE |
| 11-267-278 | 11-2374 | FRANKBERRY COURTS | 07132011 | 11 | 267 | 278 WO | Work Order Comment | 1 FLUSH IT GOOD AND UNSTOPPED IT PUT RED HOT IN MANHOLE |
| 11-267-278 | 11-2374 | FRANKBERRY COURTS | 07132011 | 11 | 267 | 278 WP | Completed Comments | 1 SEWAGE PROBLEM |
| 12-267-593 | 12-2382 | 1922 23RD AVENUE | 08152012 | 12 | 267 | 593 WO | Work Order Comment | 1 ON THEM |
| 12-267-593 | 12-2382 | 1922 23RD AVENUE | 08152012 | 12 | 267 | 593 WP | Completed Comments | 1 SEWAGE RUNNING DOWN THE PARKING LOT |
| 12-267-594 | 12-2383 | 3604-3614 17TH PLACE | 08152012 | 12 | 267 | 594 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-594 | 12-2383 | 3604-3614 17TH PLACE | 08152012 | 12 | 267 | 594 WP | Completed Comments | 1 CUSTOMER COMPLAINED OF BUSTED SEWAGE LINE |
| 12-267-595 | 12-2389 | 6408 OAKLAND FOREST DRIVE | 08162012 | 12 | 267 | 595 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-596 | 12-2390 | 1000 HWY 19 N | 08162012 | 12 | 267 | 596 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-597 | 12-2395 | 2706 33RD STREET | 08162012 | 12 | 267 | 597 WO | Work Order Comment | 1 RAISE MANHOLE |
| | | | | | | | | 1 SEWER TAP |

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| 12-267-597 | 12-2395 | 2706 33RD STREET | 08162012 | 12 | 267 | 597 WO | Work Order Comment |
| 12-267-597 | 12-2395 | 2706 33RD STREET | 08162012 | 12 | 267 | 597 WO | Work Order Comment |
| 12-267-597 | 12-2395 | 2706 33RD STREET | 08162012 | 12 | 267 | 597 WO | Work Order Comment |
| 12-267-598 | 12-2397 | 1702 36TH STREET | 08162012 | 12 | 267 | 598 WO | Work Order Comment |
| 12-267-598 | 12-2397 | 1702 36TH STREET | 08162012 | 12 | 267 | 598 WO | Work Order Comment |
| 12-267-599 | 12-2398 | 2900 ST PAUL STREET | 08162012 | 12 | 267 | 599 WO | Work Order Comment |
| 12-267-599 | 12-2398 | 2900 ST PAUL STREET | 08162012 | 12 | 267 | 599 WP | Completed Comments |
| 12-267-600 | 12-2399 | 4715 KINGS ROAD | 08162012 | 12 | 267 | 600 WO | Work Order Comment |
| 11-267-279 | 11-2408 | FRANKBERRY COURTS | 07182011 | 11 | 267 | 279 WO | Work Order Comment |
| 11-267-280 | 11-2425 | 2718 STATE BLVD | 07192011 | 11 | 267 | 280 WO | Work Order Comment |
| 11-267-280 | 11-2425 | 2718 STATE BLVD | 07192011 | 11 | 267 | 280 WP | Completed Comments |
| 12-267-601 | 12-2439 | 729 FRONT STREET EXT | 08222012 | 12 | 267 | 601 WO | Work Order Comment |
| 12-267-601 | 12-2439 | 729 FRONT STREET EXT | 08222012 | 12 | 267 | 601 WP | Completed Comments |
| 12-267-602 | 12-2440 | 1126 47TH AVENUE | 08222012 | 12 | 267 | 602 WO | Work Order Comment |
| 12-267-602 | 12-2440 | 1126 47TH AVENUE | 08222012 | 12 | 267 | 602 WP | Completed Comments |
| 12-267-603 | 12-2441 | 3217 52ND STREET | 08222012 | 12 | 267 | 603 WO | Work Order Comment |
| 12-267-603 | 12-2441 | 3217 52ND STREET | 08222012 | 12 | 267 | 603 WP | Completed Comments |
| 12-267-604 | 12-2442 | 6216 14TH AVENUE | 08222012 | 12 | 267 | 604 WO | Work Order Comment |
| 12-267-604 | 12-2442 | 6216 14TH AVENUE | 08222012 | 12 | 267 | 604 WP | Completed Comments |
| 12-267-605 | 12-2447 | 3217 52ND STREET | 08222012 | 12 | 267 | 605 WO | Work Order Comment |
| 12-267-605 | 12-2447 | 3217 52ND STREET | 08222012 | 12 | 267 | 605 WP | Completed Comments |
| 12-267-606 | 12-2448 | 4300 50TH STREET | 08222012 | 12 | 267 | 606 WO | Work Order Comment |
| 12-267-606 | 12-2448 | 4300 50TH STREET | 08222012 | 12 | 267 | 606 WP | Completed Comments |
| 11-267-281 | 11-2449 | 601 52ND AVE | 07192011 | 11 | 267 | 281 WO | Work Order Comment |
| 11-267-281 | 11-2449 | 601 52ND AVE | 07192011 | 11 | 267 | 281 WP | Completed Comments |
| 12-267-607 | 12-2449 | 6216 14TH AVENUE | 08222012 | 12 | 267 | 607 WO | Work Order Comment |
| 12-267-607 | 12-2449 | 6216 14TH AVENUE | 08222012 | 12 | 267 | 607 WP | Completed Comments |
| 11-267-282 | 11-2451 | B STREET & 3RD AVE | 07192011 | 11 | 267 | 282 WO | Work Order Comment |
| 11-267-282 | 11-2451 | B STREET & 3RD AVE | 07192011 | 11 | 267 | 282 WP | Completed Comments |
| 11-267-283 | 11-2463 | 3527 HWY 45 N | 07202011 | 11 | 267 | 283 WO | Work Order Comment |
| 11-267-283 | 11-2463 | 3527 HWY 45 N | 07202011 | 11 | 267 | 283 WP | Completed Comments |
| 12-267-608 | 12-2479 | 19TH STREET / 36TH AVENUE | 08272012 | 12 | 267 | 608 WO | Work Order Comment |
| 12-267-608 | 12-2479 | 19TH STREET / 36TH AVENUE | 08272012 | 12 | 267 | 608 WP | Completed Comments |
| 12-267-609 | 12-2481 | 19TH STREET / 36TH AVENUE | 08272012 | 12 | 267 | 609 WO | Work Order Comment |
| 12-267-609 | 12-2481 | 19TH STREET / 36TH AVENUE | 08272012 | 12 | 267 | 609 WP | Completed Comments |
| 12-267-610 | 12-2495 | 49TH AVENUE / TOMMY WEBB DRIVE | 08282012 | 12 | 267 | 610 WO | Work Order Comment |
| 12-267-610 | 12-2495 | 49TH AVENUE / TOMMY WEBB DRIVE | 08282012 | 12 | 267 | 610 WP | Completed Comments |
| 12-267-611 | 12-2496 | 1119 45TH AVENUE | 08282012 | 12 | 267 | 611 WO | Work Order Comment |
| 12-267-611 | 12-2496 | 1119 45TH AVENUE | 08282012 | 12 | 267 | 611 WP | Completed Comments |
| 12-267-612 | 12-2497 | 6216 14TH AVENUE | 08282012 | 12 | 267 | 612 WO | Work Order Comment |
| 12-267-612 | 12-2497 | 6216 14TH AVENUE | 08282012 | 12 | 267 | 612 WP | Completed Comments |
| 12-267-613 | 12-2498 | 6234 14TH AVENUE | 08282012 | 12 | 267 | 613 WO | Work Order Comment |
| 12-267-613 | 12-2498 | 6234 14TH AVENUE | 08282012 | 12 | 267 | 613 WP | Completed Comments |
| 12-267-614 | 12-2500 | 2129 HWY 39 N | 08282012 | 12 | 267 | 614 WO | Work Order Comment |
| 12-267-614 | 12-2500 | 2129 HWY 39 N | 08282012 | 12 | 267 | 614 WP | Completed Comments |
| 12-267-615 | 12-2501 | 729 FRONT STREET EXTENSION | 08282012 | 12 | 267 | 615 WO | Work Order Comment |
| 12-267-615 | 12-2501 | 729 FRONT STREET EXTENSION | 08282012 | 12 | 267 | 615 WP | Completed Comments |
| 11-267-284 | 11-2504 | 2224 HWY 19 NORTH | 07212011 | 11 | 267 | 284 WO | Work Order Comment |
| 11-267-284 | 11-2504 | 2224 HWY 19 NORTH | 07212011 | 11 | 267 | 284 WP | Completed Comments |
| 11-267-285 | 11-2506 | 2012 60TH COURT | 07212011 | 11 | 267 | 285 WO | Work Order Comment |
| 11-267-285 | 11-2506 | 2012 60TH COURT | 07212011 | 11 | 267 | 285 WP | Completed Comments |
| 12-267-616 | 12-2507 | 4024 31ST AVENUE | 08282012 | 12 | 267 | 616 WO | Work Order Comment |
| 12-267-616 | 12-2507 | 4024 31ST AVENUE | 08282012 | 12 | 267 | 616 WP | Completed Comments |
| 11-267-286 | 11-2509 | NE MERIDIAN / WHITE OAK DRIVE | 07212011 | 11 | 267 | 286 WO | Work Order Comment |
| 11-267-286 | 11-2509 | NE MERIDIAN / WHITE OAK DRIVE | 07212011 | 11 | 267 | 286 WP | Completed Comments |
| 11-267-287 | 11-2510 | 3815 SMITH STREET | 07212011 | 11 | 267 | 287 WO | Work Order Comment |
| 11-267-287 | 11-2510 | 3815 SMITH STREET | 07212011 | 11 | 267 | 287 WP | Completed Comments |
| 11-267-288 | 11-2516 | 3527 HWY 45 NORTH | 07212011 | 11 | 267 | 288 WO | Work Order Comment |
| 11-267-288 | 11-2516 | 3527 HWY 45 NORTH | 07212011 | 11 | 267 | 288 WP | Completed Comments |

- 2 LOCATE #12081015260647
- 3 PLUMBER: CHARLES TIBBETTS
- 4 SEWER TAP ORDER #5139
- 1 SEWER LINE REPAIR
- 2 LOCATE #12080216330876
- 1 CASTING NEEDS RESETTING
- 1 WE REPLACE MANHOLE COVER
- 1 MANHOLE CASTING OFF
- 1 SEWAGE PROBLEM
- 1 W/L
- 1 ON CUSTOMER
- 1 SEWAGE BACKING UP INTO BUILDING
- 1 ON THE CITY
- 1 SEWAGE BACKING UP
- 1 ON THE CUSTOMER
- 1 SEWAGE BACKING UP
- 1 ON THE CITY
- 1 FLUSH SEWER LINE
- 1 ON THE CUSTOMER
- 1 SEWER
- 1 8/20/12 REPAIR SEWER LINE
- 1 FLUSH LINE
- 1 ON THE CUSTOMER
- 1 SEWER PROBLEM
- 1 ON CUSTOMER
- 1 SEWER BACKED UP
- 1 ON THE CUSTOMER
- 1 SINKHOLE IS GETTING LARGER NEAR POWER POLE
- 1 NOTHING FOUND
- 1 SEWER PROBLEM
- 1 VOID
- 1 SEWER CAVE-IN
- 1 USED SMOKE MACHINE TO SMOKE THE SEWER
- 1 SMOKE SEWER
- 1 USE SMOKE MACHINE TO SMOKE SEWER
- 1 REPAIR SEWER LINE
- 1 SEWER MAIN OK
- 1 SEWER BACKING UP (ON CUSTOMER)
- 1 ON THE CUSTOMER
- 1 SMOKE SEWER
- 1 USED CAMERA TO LOK AT SEWER LATERAL
- 1 DRESS UP
- 1 DRESSED UP YARD WITH BROWN TOP SOIL
- 1 SEWER BACKUP BY DAIRY QUEEN
- 1 ON THE CUSTOMER
- 1 SEWER BACKUP BY NOVUS GLASS
- 1 FLUSH LINE AND UNSTOP IT - ON THE CITY
- 1 SEWER PROBLEM
- 1 ERIC TOO CARE OF THE PROBLEM
- 1 FLUSH LINES
- 1 ON US
- 1 FLUSH LINE
- 1 ON THE CUSTOMER
- 1 SEWER SMELL
- 1 ON CUSTOMER
- 1 MANHOLE - OVERFLOWING
- 1 ON US
- 1 TV SEWER
- 1 DUPLICATE W/O

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| 11-267-288 | 11-2516 | 3527 HWY 45 NORTH | 07212011 | 11 | 267 | 288 WP | Completed Comments | 3 SEE W/O 11 267 00323 |
| 12-267-617 | 12-2516 | 57TH AVENUE / 3RD STREET | 08292012 | 12 | 267 | 617 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-617 | 12-2516 | 57TH AVENUE / 3RD STREET | 08292012 | 12 | 267 | 617 WP | Completed Comments | 1 REPAIR 8" SEWER LINE |
| 11-267-289 | 11-2520 | 2000 39TH AVENUE | 07212011 | 11 | 267 | 289 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-289 | 11-2520 | 2000 39TH AVENUE | 07212011 | 11 | 267 | 289 WP | Completed Comments | 1 ON US |
| 11-267-290 | 11-2521 | 2633 SELLERS DRIVE | 07212011 | 11 | 267 | 290 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-290 | 11-2521 | 2633 SELLERS DRIVE | 07212011 | 11 | 267 | 290 WP | Completed Comments | 1 ON CUSTOMER |
| 12-267-618 | 12-2531 | 306 57TH AVENUE | 08312012 | 12 | 267 | 618 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-618 | 12-2531 | 306 57TH AVENUE | 08312012 | 12 | 267 | 618 WO | Work Order Comment | 2 LOCATE #12082310590435 |
| 12-267-618 | 12-2531 | 306 57TH AVENUE | 08312012 | 12 | 267 | 618 WP | Completed Comments | 1 REPAIR 8" SEWER LINE |
| 12-267-619 | 12-2533 | 46TH AVENUE / ROYAL ROAD | 08312012 | 12 | 267 | 619 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-619 | 12-2533 | 46TH AVENUE / ROYAL ROAD | 08312012 | 12 | 267 | 619 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-620 | 12-2535 | PARKWAY BLVD / 31ST STREET | 08312012 | 12 | 267 | 620 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-620 | 12-2535 | PARKWAY BLVD / 31ST STREET | 08312012 | 12 | 267 | 620 WP | Completed Comments | 1 ON THE CITY |
| 12-267-621 | 12-2536 | 65TH AVENUE BY GAS TERMINALS | 08312012 | 12 | 267 | 621 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-621 | 12-2536 | 65TH AVENUE BY GAS TERMINALS | 08312012 | 12 | 267 | 621 WP | Completed Comments | 1 ON THE CITY |
| 12-267-622 | 12-2537 | 6130 NEWELL ROAD | 08312012 | 12 | 267 | 622 WO | Work Order Comment | 1 MANHOLE COVER COCKED UP |
| 12-267-622 | 12-2537 | 6130 NEWELL ROAD | 08312012 | 12 | 267 | 622 WP | Completed Comments | 1 ON THE CITY |
| 11-267-291 | 11-2538 | 2529 28TH AVE | 07222011 | 11 | 267 | 291 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-623 | 12-2538 | 16TH AVENUE / 17TH STREET | 08312012 | 12 | 267 | 623 WO | Work Order Comment | 1 MANHOLE COVER COCKED UP |
| 12-267-623 | 12-2538 | 16TH AVENUE / 17TH STREET | 08312012 | 12 | 267 | 623 WP | Completed Comments | 1 ON THE CITY |
| 12-267-624 | 12-2539 | EAST WWTP | 08312012 | 12 | 267 | 624 WO | Work Order Comment | 1 MANHOLE OVERFLOWING BY DRIVEWAY |
| 12-267-624 | 12-2539 | EAST WWTP | 08312012 | 12 | 267 | 624 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-625 | 12-2540 | 19TH STREET / 17TH AVENUE | 08312012 | 12 | 267 | 625 WO | Work Order Comment | 1 MANHOLE COVER COCKED UP |
| 12-267-625 | 12-2540 | 19TH STREET / 17TH AVENUE | 08312012 | 12 | 267 | 625 WP | Completed Comments | 1 ON THE CITY |
| 12-267-626 | 12-2542 | 3753 19TH STREET | 08312012 | 12 | 267 | 626 WO | Work Order Comment | 1 MANHOLE COVER COCKED UP |
| 12-267-626 | 12-2542 | 3753 19TH STREET | 08312012 | 12 | 267 | 626 WP | Completed Comments | 1 ON THE CITY |
| 12-267-627 | 12-2543 | HILL STREET OFF NORTH HILLS STREET | 08312012 | 12 | 267 | 627 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-627 | 12-2543 | HILL STREET OFF NORTH HILLS STREET | 08312012 | 12 | 267 | 627 WP | Completed Comments | 1 ON THE CITY |
| 11-267-292 | 11-2544 | 22ND STREET / 34TH AVE | 07222011 | 11 | 267 | 292 WO | Work Order Comment | 1 CAVE IN |
| 11-267-292 | 11-2544 | 22ND STREET / 34TH AVE | 07222011 | 11 | 267 | 292 WP | Completed Comments | 1 USE 92' 8" PVC TO CLAY COUPLIN AND (1) SECTION OF 8X13 OF PV |
| 11-267-292 | 11-2544 | 22ND STREET / 34TH AVE | 07222011 | 11 | 267 | 292 WP | Completed Comments | 2 C SEWER PIPE |
| 12-267-628 | 12-2558 | SEWER PLANT / HWY 45 | 09052012 | 12 | 267 | 628 WO | Work Order Comment | 1 CLEAN UP MANHOLE |
| 12-267-629 | 12-2559 | SOWASHEE STREET | 09052012 | 12 | 267 | 629 WO | Work Order Comment | 1 CLEAN UP MANHOLE |
| 12-267-630 | 12-2560 | HWY 11 / 80 | 09052012 | 12 | 267 | 630 WO | Work Order Comment | 1 CLEAN UP MANHOLE |
| 12-267-630 | 12-2560 | HWY 11 / 80 | 09052012 | 12 | 267 | 630 WP | Completed Comments | 1 USE 1-24' FULL CIRCLE CLAMP |
| 12-267-631 | 12-2561 | 4903 1ST STREET | 09052012 | 12 | 267 | 631 WO | Work Order Comment | 1 COMMODE AND TUB STOPPED UP (ON THEM) |
| 12-267-631 | 12-2561 | 4903 1ST STREET | 09052012 | 12 | 267 | 631 WP | Completed Comments | 1 ON THE CITY |
| 12-267-632 | 12-2562 | 116 50TH AVENUE | 09052012 | 12 | 267 | 632 WO | Work Order Comment | 1 MANHOLE OVERFLOWING (ON THEM) |
| 12-267-632 | 12-2562 | 116 50TH AVENUE | 09052012 | 12 | 267 | 632 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-633 | 12-2563 | 34TH AVENUE / 21ST STREET | 09052012 | 12 | 267 | 633 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-633 | 12-2563 | 34TH AVENUE / 21ST STREET | 09052012 | 12 | 267 | 633 WP | Completed Comments | 1 FLUSH THE LINE - ON THE CITY |
| 12-267-634 | 12-2564 | 3527 HWY 45 N | 09052012 | 12 | 267 | 634 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-634 | 12-2564 | 3527 HWY 45 N | 09052012 | 12 | 267 | 634 WP | Completed Comments | 1 ON THE CITY |
| 12-267-635 | 12-2565 | 1001 30TH AVENUE | 09052012 | 12 | 267 | 635 WO | Work Order Comment | 1 SEWER BACKED UP (ON US) |
| 12-267-635 | 12-2565 | 1001 30TH AVENUE | 09052012 | 12 | 267 | 635 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-636 | 12-2566 | 1126 47TH AVENUE | 09052012 | 12 | 267 | 636 WO | Work Order Comment | 1 MANHOLE BACKED UP (ON US) |
| 12-267-636 | 12-2566 | 1126 47TH AVENUE | 09052012 | 12 | 267 | 636 WP | Completed Comments | 1 ON THE CITY |
| 12-267-637 | 12-2567 | 3501 38TH STREET | 09052012 | 12 | 267 | 637 WO | Work Order Comment | 1 FLUSH LINE (ON US) |
| 12-267-637 | 12-2567 | 3501 38TH STREET | 09052012 | 12 | 267 | 637 WP | Completed Comments | 1 ON THE CITY |
| 11-267-293 | 11-2568 | 2406 5TH AVENUE | 07262011 | 11 | 267 | 293 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-293 | 11-2568 | 2406 5TH AVENUE | 07262011 | 11 | 267 | 293 WP | Completed Comments | 1 ON US |
| 12-267-638 | 12-2568 | GRANDVIEW AVENUE / 40TH STREET | 09052012 | 12 | 267 | 638 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-638 | 12-2568 | GRANDVIEW AVENUE / 40TH STREET | 09052012 | 12 | 267 | 638 WP | Completed Comments | 1 USE 1-SECTION OF 8"X14" OF SEWER PIPE, 1-4" TAPPING SADDLE |
| 12-267-638 | 12-2568 | GRANDVIEW AVENUE / 40TH STREET | 09052012 | 12 | 267 | 638 WP | Completed Comments | 2 1-SECTION OF 4"X14" OF SEWER PIPE, 2-8" PVC TO CLAY COUPLING |
| 12-267-638 | 12-2568 | GRANDVIEW AVENUE / 40TH STREET | 09052012 | 12 | 267 | 638 WP | Completed Comments | 3 AND 1-6"X4" PVC TO CLAY COUPLIN TO REPAIR A SEWER LINE |
| 11-267-294 | 11-2570 | 23RD STREET / 17TH AVE | 07262011 | 11 | 267 | 294 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 11-267-294 | 11-2570 | 23RD STREET / 17TH AVE | 07262011 | 11 | 267 | 294 WP | Completed Comments | 1 8" SEWER LINE USE TWO BUCKWT OF PLUG |
| 12-267-639 | 12-2570 | GRANDVIEW AVENUE / 41ST STREET | 09052012 | 12 | 267 | 639 WO | Work Order Comment | 1 SEWER CAVE-IN |

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| 11-267-295 | 11-2571 | 34TH AVE / 22RD ST | 07262011 | 11 | 267 | 295 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-640 | 12-2572 | 919 35TH AVENUE | 09052012 | 12 | 267 | 640 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 12-267-640 | 12-2572 | 919 35TH AVENUE | 09052012 | 12 | 267 | 640 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-641 | 12-2573 | 2320 8TH STREET | 09052012 | 12 | 267 | 641 WO | Work Order Comment | 1 POSSIBLE SEWER PROBLEM BY THE TEMPLE THEATER |
| 12-267-641 | 12-2573 | 2320 8TH STREET | 09052012 | 12 | 267 | 641 WP | Completed Comments | 1 FLUSH LINE |
| 11-267-296 | 11-2574 | 609 65TH AVE | 07262011 | 11 | 267 | 296 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-296 | 11-2574 | 609 65TH AVE | 07262011 | 11 | 267 | 296 WP | Completed Comments | 1 OVERFLOWING AFTER A LOT OF RAIN |
| 11-267-297 | 11-2575 | 38TH AVE / PAULDING | 07262011 | 11 | 267 | 297 WO | Work Order Comment | 1 MANHOLE LID TILTED, SEWER COMING OUT |
| 11-267-297 | 11-2575 | 38TH AVE / PAULDING | 07262011 | 11 | 267 | 297 WP | Completed Comments | 1 LINE FULL OF GREASE. UNSTOPPED IT. |
| 11-267-298 | 11-2576 | 20TH AVE BETWEEN 14TH & 15TH STREET | 07262011 | 11 | 267 | 298 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-298 | 11-2576 | 20TH AVE BETWEEN 14TH & 15TH STREET | 07262011 | 11 | 267 | 298 WP | Completed Comments | 1 LINE FULL OF GREASE. FLUSHED LINE AND GOT IT RUNNING |
| 12-267-642 | 12-2576 | 6228 14TH AVENUE | 09062012 | 12 | 267 | 642 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-642 | 12-2576 | 6228 14TH AVENUE | 09062012 | 12 | 267 | 642 WP | Completed Comments | 1 1-4" FULL CIRCLE CLAMP TO STOP THE LEAK ON A 4" HIGH |
| 12-267-642 | 12-2576 | 6228 14TH AVENUE | 09062012 | 12 | 267 | 642 WP | Completed Comments | 2 PRESSURE SEWER LINE |
| 11-267-299 | 11-2577 | 4605 ROYAL ROAD | 07262011 | 11 | 267 | 299 WO | Work Order Comment | 1 MANHOLE OVER FLOW |
| 11-267-299 | 11-2577 | 4605 ROYAL ROAD | 07262011 | 11 | 267 | 299 WP | Completed Comments | 1 STOPPED UP. FLUSHED IT OUT AND UNSTOPPED IT. |
| 11-267-300 | 11-2579 | 405 TIMBER RIDGE RD | 07262011 | 11 | 267 | 300 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-300 | 11-2579 | 405 TIMBER RIDGE RD | 07262011 | 11 | 267 | 300 WP | Completed Comments | 1 ON US |
| 11-267-301 | 11-2580 | 3703 PAULDING | 07262011 | 11 | 267 | 301 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-301 | 11-2580 | 3703 PAULDING | 07262011 | 11 | 267 | 301 WP | Completed Comments | 1 LINE FULL OF GREASE. FLUSHED LINE AND GOT IT RUNNING |
| 11-267-302 | 11-2586 | 1400 NORTH HILLS STREET | 07272011 | 11 | 267 | 302 WO | Work Order Comment | 1 SMOKE SEWER - IS THIS ADDRESS ON CITY SEWER? |
| 11-267-302 | 11-2586 | 1400 NORTH HILLS STREET | 07272011 | 11 | 267 | 302 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 11-267-303 | 11-2587 | 205 NORTH HILLS STREET | 07272011 | 11 | 267 | 303 WO | Work Order Comment | 1 SMOKE SEWER - IS THIS ADDRESS ON SEWER ? |
| 11-267-303 | 11-2587 | 205 NORTH HILLS STREET | 07272011 | 11 | 267 | 303 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 11-267-304 | 11-2588 | 4905 NEWELL RD | 07272011 | 11 | 267 | 304 WO | Work Order Comment | 1 SMOKE SEWER - IS THIS ADDRESS ON CITY SEWER? |
| 11-267-304 | 11-2588 | 4905 NEWELL RD | 07272011 | 11 | 267 | 304 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 11-267-305 | 11-2589 | 536 LINDLEY RD | 07272011 | 11 | 267 | 305 WO | Work Order Comment | 1 SMOKE SEWER - IS THIS ADDRESS ON CITY SEWER? |
| 11-267-305 | 11-2589 | 536 LINDLEY RD | 07272011 | 11 | 267 | 305 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 11-267-306 | 11-2592 | 5320 NORTH HILLS STREET | 07272011 | 11 | 267 | 306 WO | Work Order Comment | 1 SMOKE SEWER - VERIFY IF CUSTOMER IS ON CITY SEWER |
| 11-267-306 | 11-2592 | 5320 NORTH HILLS STREET | 07272011 | 11 | 267 | 306 WP | Completed Comments | 1 ON CITY SEWER |
| 11-267-307 | 11-2593 | 5501 POWELL DRIVE | 07272011 | 11 | 267 | 307 WO | Work Order Comment | 1 SMOKE SEWER LINE TO VERIFY IF ON CITY SEWER |
| 11-267-307 | 11-2593 | 5501 POWELL DRIVE | 07272011 | 11 | 267 | 307 WP | Completed Comments | 1 NO SEWER |
| 12-267-643 | 12-2595 | 5208 DRUID LANE | 09072012 | 12 | 267 | 643 WO | Work Order Comment | 1 TUB AND TOILET STOPPED UP (LINE OPENED AND RUNNING) |
| 11-267-308 | 11-2599 | 601 52ND AVENUE | 07282011 | 11 | 267 | 308 WO | Work Order Comment | 1 SEWER CAVE-IN ON HOMEOWNER |
| 11-267-308 | 11-2599 | 601 52ND AVENUE | 07282011 | 11 | 267 | 308 WP | Completed Comments | 1 ON HOMEOWNER. SEWER LEAK |
| 12-267-644 | 12-2610 | 2024 39TH AVENUE | 09112012 | 12 | 267 | 644 WO | Work Order Comment | 1 SEWER SMELL |
| 12-267-644 | 12-2610 | 2024 39TH AVENUE | 09112012 | 12 | 267 | 644 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-645 | 12-2612 | 26TH STREET / 43RD AVENUE | 09112012 | 12 | 267 | 645 WO | Work Order Comment | 1 FLUSH STORM DRAINS |
| 12-267-645 | 12-2612 | 26TH STREET / 43RD AVENUE | 09112012 | 12 | 267 | 645 WP | Completed Comments | 1 ON THE CITY |
| 11-267-309 | 11-2613 | 21ST ST / 33RD AVE | 07292011 | 11 | 267 | 309 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 11-267-309 | 11-2613 | 21ST ST / 33RD AVE | 07292011 | 11 | 267 | 309 WP | Completed Comments | 3 LOCATE #11072810060331 |
| 11-267-309 | 11-2613 | 21ST ST / 33RD AVE | 07292011 | 11 | 267 | 309 WP | Completed Comments | 1 VOID |
| 11-267-310 | 11-2614 | 3701 PAULING STREET | 07292011 | 11 | 267 | 310 WO | Work Order Comment | 1 GREASE IN SEWER LINE. FLUSHED LINE. |
| 12-267-646 | 12-2615 | 2400 51ST AVENUE | 09122012 | 12 | 267 | 646 WO | Work Order Comment | 1 SEWER TAP - TAP SIZE 4 INCH |
| 12-267-646 | 12-2615 | 2400 51ST AVENUE | 09122012 | 12 | 267 | 646 WO | Work Order Comment | 2 LOCATE #12090514100875 |
| 12-267-646 | 12-2615 | 2400 51ST AVENUE | 09122012 | 12 | 267 | 646 WO | Work Order Comment | 3 PLUMBER: BARBER & SON |
| 12-267-646 | 12-2615 | 2400 51ST AVENUE | 09122012 | 12 | 267 | 646 WO | Work Order Comment | 4 SEWER TAP ORDER #5141 |
| 12-267-647 | 12-2616 | 5839 40TH COURT | 09122012 | 12 | 267 | 647 WO | Work Order Comment | 1 SEWER BACKING UP (OPEN & RUNNING) |
| 12-267-647 | 12-2616 | 5839 40TH COURT | 09122012 | 12 | 267 | 647 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-648 | 12-2618 | 4912 HOOPER STREET | 09122012 | 12 | 267 | 648 WO | Work Order Comment | 1 RAW SEWAGE IN DITCH |
| 12-267-648 | 12-2618 | 4912 HOOPER STREET | 09122012 | 12 | 267 | 648 WP | Completed Comments | 1 ON THE CITY |
| 12-267-649 | 12-2628 | COUNTRY CLUB DRIVE / 43 RD STREET | 09142012 | 12 | 267 | 649 WO | Work Order Comment | 1 WATER LEAK AROUND MANHOLE (NOTHING FOUND) |
| 12-267-650 | 12-2630 | MYRTLE DRIVE | 09142012 | 12 | 267 | 650 WO | Work Order Comment | 1 SEWAGE RUNNING INTO DITCH |
| 12-267-650 | 12-2630 | MYRTLE DRIVE | 09142012 | 12 | 267 | 650 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-651 | 12-2643 | 3828 34TH STREET | 09182012 | 12 | 267 | 651 WO | Work Order Comment | 1 SEWER PROBLEM (ON THEM) |
| 12-267-651 | 12-2643 | 3828 34TH STREET | 09182012 | 12 | 267 | 651 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-652 | 12-2650 | 4000 COUNTRY CLUB DRIVE | 09182012 | 12 | 267 | 652 WO | Work Order Comment | 1 SEWER SMELL IN DITCH (ON THEM - GROUND WATER) |
| 12-267-652 | 12-2650 | 4000 COUNTRY CLUB DRIVE | 09182012 | 12 | 267 | 652 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-653 | 12-2651 | 4224 38TH STREET | 09182012 | 12 | 267 | 653 WO | Work Order Comment | 1 SEWER PROBLEM (ON THEM - SERVICE LINE) |

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| 12-267-653 | 12-2651 | 4224 38TH STREET | 09182012 | 12 | 267 | 653 WP | Completed Comments | 1 ON THE CUSTOMER |
| 11-267-311 | 11-2664 | 26TH STREET / HIGHLAND AVE | 08022011 | 11 | 267 | 311 WO | Work Order Comment | 1 FLUSHED LINE AND CLEARED PROBLEM |
| 11-267-311 | 11-2664 | 26TH STREET / HIGHLAND AVE | 08022011 | 11 | 267 | 311 WP | Completed Comments | 1 FLUSHLINE AND CLEARED PROBLEM |
| 11-267-312 | 11-2666 | 5708 1ST STREET | 08022011 | 11 | 267 | 312 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-313 | 11-2668 | 2103 19TH AVENUE | 08022011 | 11 | 267 | 313 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-654 | 12-2670 | 24TH STREET / 36TH AVENUE | 09202012 | 12 | 267 | 654 WO | Work Order Comment | 1 FLUSH LINE GOOD |
| 12-267-655 | 12-2672 | 39TH AVEUE / ROYAL ROAD | 09202012 | 12 | 267 | 655 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 12-267-656 | 12-2673 | 1126 47TH AVENUE | 09202012 | 12 | 267 | 656 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-657 | 12-2674 | 2712 43RD AVENUE | 09202012 | 12 | 267 | 657 WO | Work Order Comment | 1 CLEAN UP AROUND MANHOLE |
| 12-267-657 | 12-2674 | 2712 43RD AVENUE | 09202012 | 12 | 267 | 657 WP | Completed Comments | 1 WATER SEEPING OUT OF MANHOLE |
| 12-267-658 | 12-2675 | 35TH AVENUE BWTN 35TH / 36TH STREET | 09202012 | 12 | 267 | 658 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-658 | 12-2675 | 35TH AVENUE BWTN 35TH / 36TH STREET | 09202012 | 12 | 267 | 658 WP | Completed Comments | 1 SMOKE SEWER |
| 11-267-314 | 11-2688 | 314 46TH AVENUE | 08032011 | 11 | 267 | 314 WO | Work Order Comment | 1 ON THE CITY |
| 11-267-314 | 11-2688 | 314 46TH AVENUE | 08032011 | 11 | 267 | 314 WP | Completed Comments | 1 SEWER PROBLEM ON CUSTOMER |
| 12-267-659 | 12-2688 | 3517 35TH AVENUE | 09212012 | 12 | 267 | 659 WO | Work Order Comment | 1 ON HOMEOWNER |
| 12-267-659 | 12-2688 | 3517 35TH AVENUE | 09212012 | 12 | 267 | 659 WP | Completed Comments | 1 SEWER CAVE-IN |
| 12-267-659 | 12-2688 | 3517 35TH AVENUE | 09212012 | 12 | 267 | 659 WO | Work Order Comment | 2 LOCATE #12091315010781 |
| 12-267-660 | 12-2689 | 2712 43RD AVENUE | 09212012 | 12 | 267 | 660 WO | Work Order Comment | 1 REPAIR SEWER WYE ON MAIN SEWER LINE |
| 12-267-660 | 12-2689 | 2712 43RD AVENUE | 09212012 | 12 | 267 | 660 WP | Completed Comments | 1 WATER SEEPING OUT OF MANHOLE |
| 11-267-315 | 11-2690 | BONITA LAKE PAVILLION | 08032011 | 11 | 267 | 315 WO | Work Order Comment | 1 VOID |
| 11-267-315 | 11-2690 | BONITA LAKE PAVILLION | 08032011 | 11 | 267 | 315 WP | Completed Comments | 1 REPLACED CLEAN OUT PLUG |
| 11-267-316 | 11-2695 | 15TH STREET / 45TH AVENUE | 08032011 | 11 | 267 | 316 WO | Work Order Comment | 1 REPLACE CLEAN OUT PLUG |
| 11-267-316 | 11-2695 | 15TH STREET / 45TH AVENUE | 08032011 | 11 | 267 | 316 WP | Completed Comments | 1 REPAIRED 4" SEWER LINE |
| 12-267-661 | 12-2706 | 43RD AVENUE / RAILROAD STREET | 09242012 | 12 | 267 | 661 WO | Work Order Comment | 1 REPAIRED 4" SEWER LINE |
| 12-267-661 | 12-2706 | 43RD AVENUE / RAILROAD STREET | 09242012 | 12 | 267 | 661 WP | Completed Comments | 1 SEWER STOPPED UP (EMERGENCY) |
| 11-267-317 | 11-2710 | 21ST STREET / 33RD AVENUE | 08042011 | 11 | 267 | 317 WO | Work Order Comment | 1 LINE STOPPED UP A HOLE BLOCK |
| 11-267-317 | 11-2710 | 21ST STREET / 33RD AVENUE | 08042011 | 11 | 267 | 317 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 12-267-662 | 12-2711 | 712 HWY 19N | 09242012 | 12 | 267 | 662 WO | Work Order Comment | 1 8" SEWER LINE. USED 8" PVC TO CLAY COUPLING, 5 FEET AND 8 |
| 12-267-662 | 12-2711 | 712 HWY 19N | 09242012 | 12 | 267 | 662 WO | Work Order Comment | 2 INCH OF PVC PIPE. |
| 12-267-662 | 12-2711 | 712 HWY 19N | 09242012 | 12 | 267 | 662 WO | Work Order Comment | 1 SEWER TAP - TAP SIZE 4 INCH |
| 12-267-662 | 12-2711 | 712 HWY 19N | 09242012 | 12 | 267 | 662 WO | Work Order Comment | 2 LOCATE #12091007200028 |
| 12-267-662 | 12-2711 | 712 HWY 19N | 09242012 | 12 | 267 | 662 WO | Work Order Comment | 3 NAME: WAFFLE HOUSE, CONTRACTOR: BRIAN HARDEN |
| 12-267-663 | 12-2720 | 1502 5TH STREET | 09252012 | 12 | 267 | 662 WP | Completed Comments | 4 SEWER TAP ORDER #5140 |
| 12-267-663 | 12-2720 | 1502 5TH STREET | 09252012 | 12 | 267 | 663 WO | Work Order Comment | 1 2 BAGS OF CEMENT |
| 12-267-664 | 12-2721 | 1516 20TH STREET | 09252012 | 12 | 267 | 663 WP | Completed Comments | 1 MANHOLE OVERFLOWING (ON THEM) |
| 12-267-664 | 12-2721 | 1516 20TH STREET | 09252012 | 12 | 267 | 664 WO | Work Order Comment | 1 ON THE CUSTOMER - LINE STOPPED UP |
| 12-267-665 | 12-2722 | 30TH AVENUE / 35TH STREET | 09252012 | 12 | 267 | 664 WP | Completed Comments | 1 TOILET BACKING UP (ON THEM) |
| 12-267-665 | 12-2722 | 30TH AVENUE / 35TH STREET | 09252012 | 12 | 267 | 665 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 11-267-318 | 11-2726 | 2406 51ST AVENUE | 08052011 | 11 | 267 | 665 WP | Completed Comments | 1 MANHOLE OVERFLOWING (ON US) |
| 11-267-318 | 11-2726 | 2406 51ST AVENUE | 08052011 | 11 | 267 | 318 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 11-267-319 | 11-2731 | 922 A STREET | 08052011 | 11 | 267 | 318 WP | Completed Comments | 1 SEWER ODOR |
| 11-267-319 | 11-2731 | 922 A STREET | 08052011 | 11 | 267 | 319 WO | Work Order Comment | 1 VOID |
| 12-267-666 | 12-2731 | 3219 40TH STREET | 09262012 | 12 | 267 | 319 WP | Completed Comments | 1 SMOKE SEWER |
| 12-267-666 | 12-2731 | 3219 40TH STREET | 09262012 | 12 | 267 | 666 WO | Work Order Comment | 1 DID NOT FIND ANYTHING |
| 11-267-320 | 11-2733 | 1419 49TH AVE | 08052011 | 11 | 267 | 666 WP | Completed Comments | 1 TOILET BUBBLING UP |
| 11-267-320 | 11-2733 | 1419 49TH AVE | 08052011 | 11 | 267 | 320 WO | Work Order Comment | 1 FLUSH LINE |
| 11-267-321 | 11-2734 | 2017 7TH AVE | 08052011 | 11 | 267 | 320 WP | Completed Comments | 1 FLUSH LINES |
| 11-267-321 | 11-2734 | 2017 7TH AVE | 08052011 | 11 | 267 | 321 WO | Work Order Comment | 1 SEWER SMELL; FOUND IT AND UNSTOPPED IT |
| 12-267-667 | 12-2736 | 14TH STREET / 14TH AVENUE | 09272012 | 12 | 267 | 321 WP | Completed Comments | 1 SMOKED SEWER LINE |
| 12-267-667 | 12-2736 | 14TH STREET / 14TH AVENUE | 09272012 | 12 | 267 | 667 WO | Work Order Comment | 1 SMOKE SEWER LINE |
| 12-267-667 | 12-2736 | 14TH STREET / 14TH AVENUE | 09272012 | 12 | 267 | 667 WO | Work Order Comment | 1 WATER LEAK |
| 12-267-668 | 12-2737 | 1516 20TH STREET | 09272012 | 12 | 267 | 667 WP | Completed Comments | 2 LOCATE #12092109470222 |
| 12-267-668 | 12-2737 | 1516 20TH STREET | 09272012 | 12 | 267 | 668 WO | Work Order Comment | 1 REPLACE WATER LINE 3/4' COPPER 3/4' CURBSTOP, 3/4 NIPPLE |
| 12-267-669 | 12-2749 | SOWASHEE STREET / HAMILTON AVENUE | 09282012 | 12 | 267 | 668 WP | Completed Comments | 1 TOILET BACKING UP |
| 12-267-669 | 12-2749 | SOWASHEE STREET / HAMILTON AVENUE | 09282012 | 12 | 267 | 669 WO | Work Order Comment | 1 FLUSH LINE - ON THE CUSTOMER |
| 12-267-669 | 12-2749 | SOWASHEE STREET / HAMILTON AVENUE | 09282012 | 12 | 267 | 669 WP | Completed Comments | 1 SEWER CAVE-IN |
| 11-267-408 | 11-2752 | 2406 51ST AVENUE | 09302011 | 11 | 267 | 669 WP | Completed Comments | 1 1-4" PLUG |
| | | | | | | 408 WP | Completed Comments | 2 2 BAGS OF CEMENT |
| | | | | | | | | 1 VOID |

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| 12-267-670 | 12-2752 | 9TH AVENUE / 5TH STREET | 09282012 | 12 | 267 | 670 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-670 | 12-2752 | 9TH AVENUE / 5TH STREET | 09282012 | 12 | 267 | 670 WP | Completed Comments | 1 FLUSH MANHOLE AND UNSTOP |
| 11-267-322 | 11-2755 | 3806 A PLACE | 08082011 | 11 | 267 | 322 WO | Work Order Comment | 1 WATER LEAK |
| 11-267-323 | 11-2759 | 3527 HWY 45 NORTH | 08082011 | 11 | 267 | 323 WO | Work Order Comment | 1 NO SEWER PROBLEM FOUND |
| 11-267-323 | 11-2759 | 3527 HWY 45 NORTH | 08082011 | 11 | 267 | 323 WP | Completed Comments | 1 WAS NOT A SEWER PROBLEM |
| 11-267-324 | 11-2784 | 19ST / 20TH AVE | 08102011 | 11 | 267 | 324 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-324 | 11-2784 | 19ST / 20TH AVE | 08102011 | 11 | 267 | 324 WP | Completed Comments | 1 USED ONE SECTION OF 10X14 OF SEWER PIPE AND 2 10 INCH PVC |
| 11-267-324 | 11-2784 | 19ST / 20TH AVE | 08102011 | 11 | 267 | 324 WP | Completed Comments | 2 CLAY COUPLING TO REPAIR A SEWER LINE |
| 11-267-325 | 11-2787 | 47ST / PAULING | 08102011 | 11 | 267 | 325 WO | Work Order Comment | 1 FLUSHED LINE |
| 11-267-325 | 11-2787 | 47ST / PAULING | 08102011 | 11 | 267 | 325 WP | Completed Comments | 1 FLUSH LINE |
| 11-267-326 | 11-2806 | 901 RUBUSH | 08122011 | 11 | 267 | 326 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-327 | 11-2808 | 901 RUBUSH AVENUE | 08122011 | 11 | 267 | 327 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-327 | 11-2808 | 901 RUBUSH AVENUE | 08122011 | 11 | 267 | 327 WP | Completed Comments | 3 LOCATE #11081207390146 |
| 11-267-327 | 11-2808 | 901 RUBUSH AVENUE | 08122011 | 11 | 267 | 327 WP | Completed Comments | 1 USED TWO COUPLING, 8"; FIVE FEET OF PVC PIPE |
| 11-267-328 | 11-2813 | 2600 NHS | 08122011 | 11 | 267 | 328 WO | Work Order Comment | 1 SINKHOLE NEAR MANHOLE |
| 11-267-328 | 11-2813 | 2600 NHS | 08122011 | 11 | 267 | 328 WP | Completed Comments | 1 NO SINKHOLE |
| 11-267-329 | 11-2822 | 4708 HICKORY HILL CIRCLE | 08122011 | 11 | 267 | 329 WO | Work Order Comment | 1 DID NOT SEE WHERE MANHOLE WAS OVERFLOWING |
| 11-267-329 | 11-2822 | 4708 HICKORY HILL CIRCLE | 08122011 | 11 | 267 | 329 WP | Completed Comments | 1 COULD NOT FIND A PROBLEM |
| 11-267-330 | 11-2825 | 727 50TH AVE | 08122011 | 11 | 267 | 330 WO | Work Order Comment | 1 FLUSH LINES |
| 11-267-330 | 11-2825 | 727 50TH AVE | 08122011 | 11 | 267 | 330 WP | Completed Comments | 1 FLUSH LINE |
| 11-267-331 | 11-2826 | 3115 GRANDVIEW AVE | 08122011 | 11 | 267 | 331 WO | Work Order Comment | 1 FLUSH LINES |
| 11-267-331 | 11-2826 | 3115 GRANDVIEW AVE | 08122011 | 11 | 267 | 331 WP | Completed Comments | 1 FLUSHED LINE AND UNSTOPPED IT |
| 11-267-332 | 11-2831 | A STREET / 18TH AVE | 08152011 | 11 | 267 | 332 WO | Work Order Comment | 1 REPAIRED MANHOLE CASTING |
| 11-267-333 | 11-2832 | 2803 26TH STREET | 08152011 | 11 | 267 | 333 WO | Work Order Comment | 1 REPAIRED 6" SEWER LINE |
| 11-267-334 | 11-2833 | 15TH PLACE / 31ST STREET | 08152011 | 11 | 267 | 334 WO | Work Order Comment | 1 REPAIRED 15" SEWER LINE |
| 11-267-335 | 11-2835 | 15TH PLACE / 31ST STREET | 08152011 | 11 | 267 | 335 WO | Work Order Comment | 1 REPAIRED MANHOLE |
| 11-267-336 | 11-2846 | 6329 HWY 39 NORTH | 08152011 | 11 | 267 | 336 WO | Work Order Comment | 1 SEWER TAP 4 INCH |
| 11-267-336 | 11-2846 | 6329 HWY 39 NORTH | 08152011 | 11 | 267 | 336 WO | Work Order Comment | 3 LOCATE # |
| 11-267-336 | 11-2846 | 6329 HWY 39 NORTH | 08152011 | 11 | 267 | 336 WO | Work Order Comment | 2 JAMES HURTT, PLUMBER (601-938-8214) |
| 11-267-336 | 11-2846 | 6329 HWY 39 NORTH | 08152011 | 11 | 267 | 336 WO | Work Order Comment | 4 SEWER TAP ORDER #5120 |
| 11-267-336 | 11-2846 | 6329 HWY 39 NORTH | 08152011 | 11 | 267 | 336 WP | Completed Comments | 1 USED 2" FULL CIRCLE CLAMP TO REPAIR 2" WATER LINE |
| 11-267-336 | 11-2846 | 6329 HWY 39 NORTH | 08152011 | 11 | 267 | 337 WO | Work Order Comment | 1 REPAIRED 4" SEWER LINE |
| 11-267-337 | 11-2857 | 45TH AVE / 15TH STREET | 08152011 | 11 | 267 | 338 WO | Work Order Comment | 1 SMOKED SEWER |
| 11-267-338 | 11-2860 | 2017 7TH AVENUE | 08152011 | 11 | 267 | 338 WP | Completed Comments | 3 ***** NOT ON CITY SEWER ***** |
| 11-267-338 | 11-2860 | 2017 7TH AVENUE | 08162011 | 11 | 267 | 339 WO | Work Order Comment | 1 SEWER LINE |
| 11-267-339 | 11-2873 | GREAT RIVER DRIVE | 08162011 | 11 | 267 | 339 WP | Completed Comments | 3 SEWER WAS STOPPED UP -- CALLED 67/8 TO UNSTOP SEWER |
| 11-267-339 | 11-2873 | GREAT RIVER DRIVE | 08172011 | 11 | 267 | 340 WO | Work Order Comment | 1 SEWER LEAK ON HIGH PRESSURE SEWER LINE |
| 11-267-340 | 11-2887 | HWY 39 N / WINDMILL DRIVE | 08172011 | 11 | 267 | 340 WO | Work Order Comment | 3 LOCATE # 11081715040918 |
| 11-267-340 | 11-2887 | HWY 39 N / WINDMILL DRIVE | 08172011 | 11 | 267 | 341 WO | Work Order Comment | 1 SEWER TAP 4" |
| 11-267-341 | 11-2890 | 4400 KINGS ROAD | 08172011 | 11 | 267 | 341 WP | Completed Comments | 3 LOCATE # 11081210420472 |
| 11-267-341 | 11-2890 | 4400 KINGS ROAD | 08172011 | 11 | 267 | 341 WP | Completed Comments | 1 VOID |
| 11-267-341 | 11-2890 | 4400 KINGS ROAD | 08222011 | 11 | 267 | 342 WO | Work Order Comment | 2 **** |
| 11-267-342 | 11-2923 | CHIP PICKERING DR / FRED CLAYTON RD | 08222011 | 11 | 267 | 342 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-342 | 11-2923 | CHIP PICKERING DR / FRED CLAYTON RD | 08222011 | 11 | 267 | 342 WO | Work Order Comment | 3 LOCATE # 11082307410090 (EMERGENCY) |
| 11-267-342 | 11-2923 | CHIP PICKERING DR / FRED CLAYTON RD | 08222011 | 11 | 267 | 342 WP | Completed Comments | 2 LOCATE # 11082208030104 |
| 11-267-342 | 11-2923 | CHIP PICKERING DR / FRED CLAYTON RD | 08222011 | 11 | 267 | 343 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-343 | 11-2932 | 4504 CHANDLER RD | 08222011 | 11 | 267 | 343 WP | Completed Comments | 1 REPAIR WATER LFEAK |
| 11-267-343 | 11-2932 | 4504 CHANDLER RD | 08222011 | 11 | 267 | 344 WO | Work Order Comment | 1 RUN NEW 3/4 COPPER SERVICE, USED 35 FOOT OF 3/4/ COPPER. |
| 11-267-344 | 11-2935 | GREAT RIVER DRIVE | 08242011 | 11 | 267 | 345 WO | Work Order Comment | 1 SEWER LINE |
| 11-267-345 | 11-2947 | MLK / 11TH STREET | 08242011 | 11 | 267 | 345 WP | Completed Comments | 1 SEWER LEAK -- ON CUSTOMER |
| 11-267-345 | 11-2947 | MLK / 11TH STREET | 08242011 | 11 | 267 | 346 WO | Work Order Comment | 1 ON HOMEOWNER |
| 11-267-346 | 11-2948 | 620 34TH AVENUE | 08242011 | 11 | 267 | 346 WP | Completed Comments | 1 SEWAGE BACKUP -- ON CUSTOMER |
| 11-267-346 | 11-2948 | 620 34TH AVENUE | 08242011 | 11 | 267 | 347 WO | Work Order Comment | 1 ON THEM |
| 11-267-347 | 11-2949 | 37TH AVE / DAVIS STREET | 08242011 | 11 | 267 | 347 WP | Completed Comments | 1 REPLACE MANHOLE COVER |
| 11-267-347 | 11-2949 | 37TH AVE / DAVIS STREET | 08252011 | 11 | 267 | 348 WO | Work Order Comment | 1 PUT A TOP ON MANHOLE |
| 11-267-348 | 11-2958 | 601 52ND AVENUE | 08252011 | 11 | 267 | 348 WP | Completed Comments | 1 FLUSH LINE |
| 11-267-348 | 11-2958 | 601 52ND AVENUE | 08262011 | 11 | 267 | 349 WO | Work Order Comment | 1 FLUSHED LINE |
| 11-267-349 | 11-2966 | 2107 13TH AVE | 08262011 | 11 | 267 | 349 WP | Completed Comments | 1 FLUSH LINE |
| 11-267-349 | 11-2966 | 2107 13TH AVE | | | | | | 1 LINE FULL OF GREASE |

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| 11-267-350 | 11-2994 | 201 S FRONTAGE RD | 08302011 | 11 | 267 | 350 WO | Work Order Comment | 1 INSTALL 4" SEWER PIPE AT RED LOBSTER |
| 11-267-350 | 11-2994 | 201 S FRONTAGE RD | 08302011 | 11 | 267 | 350 WP | Completed Comments | 1 PUT IN 4" SEWER PIPE |
| 11-267-351 | 11-2995 | 541 BROOKWOOD LANE | 08302011 | 11 | 267 | 351 WO | Work Order Comment | 1 FOUND THE SMELL AND FLUSHED IT |
| 11-267-351 | 11-2995 | 541 BROOKWOOD LANE | 08302011 | 11 | 267 | 351 WP | Completed Comments | 1 FOUND THE SMELL AND FLUSHED IT |
| 11-267-399 | 11-2999 | 5TH AVE / 49TH COURT | 09262011 | 11 | 267 | 399 WO | Work Order Comment | 1 SEWER BACKUP |
| 11-267-399 | 11-2999 | 5TH AVE / 49TH COURT | 09262011 | 11 | 267 | 399 WP | Completed Comments | 1 VOID |
| 11-267-352 | 11-3009 | 551 62ND AVE | 08312011 | 11 | 267 | 352 WO | Work Order Comment | 1 RAISE MANHOLE AND METER BOX |
| 11-267-352 | 11-3009 | 551 62ND AVE | 08312011 | 11 | 267 | 352 WP | Completed Comments | 1 RAISED MANHOLE AND METER BOX |
| 11-267-353 | 11-3011 | 2406 51ST AVENUE | 08312011 | 11 | 267 | 353 WO | Work Order Comment | 1 FOUND THE SMELL AND FLUSHED IT |
| 11-267-353 | 11-3011 | 2406 51ST AVENUE | 08312011 | 11 | 267 | 353 WP | Completed Comments | 1 FOUND THE SMELL AND FLUSHED IT |
| 11-267-354 | 11-3012 | STATE BLVD / 20TH STREET EXTENSION | 08312011 | 11 | 267 | 354 WO | Work Order Comment | 1 SEWER WAS NOT STOPPED UP |
| 11-267-354 | 11-3012 | STATE BLVD / 20TH STREET EXTENSION | 08312011 | 11 | 267 | 354 WP | Completed Comments | 1 SEWER WAS NOT STOPPED UP |
| 11-267-355 | 11-3014 | RED LOBSTER | 08312011 | 11 | 267 | 355 WO | Work Order Comment | 1 INSTALL 4 INCH SEWER PIPE |
| 11-267-355 | 11-3014 | RED LOBSTER | 08312011 | 11 | 267 | 355 WP | Completed Comments | 2 DUPLICATE WORK ORDER |
| 11-267-356 | 11-3016 | 1323 37TH AVE | 08312011 | 11 | 267 | 356 WO | Work Order Comment | 1 SEWER PROBLEM -- ON CUSTOMER |
| 11-267-356 | 11-3016 | 1323 37TH AVE | 08312011 | 11 | 267 | 356 WP | Completed Comments | 1 ON THEM |
| 11-267-357 | 11-3018 | 23RD STREET / OLD HWY 45 | 08312011 | 11 | 267 | 357 WO | Work Order Comment | 1 CHECK SEWER LINE |
| 11-267-357 | 11-3018 | 23RD STREET / OLD HWY 45 | 08312011 | 11 | 267 | 357 WP | Completed Comments | 1 CHECKED OUT SEWER LINE |
| 11-267-358 | 11-3019 | 4807 13 STREET | 08312011 | 11 | 267 | 358 WO | Work Order Comment | 1 CHECK OUT SEWER ODOR -- ON CUSTOMER |
| 11-267-358 | 11-3019 | 4807 13 STREET | 08312011 | 11 | 267 | 358 WP | Completed Comments | 1 ON THEM |
| 11-267-359 | 11-3020 | 43RD AVE / 5TH STREET | 08312011 | 11 | 267 | 359 WO | Work Order Comment | 1 TURNED OVER TO STREET DEPT |
| 11-267-359 | 11-3020 | 43RD AVE / 5TH STREET | 08312011 | 11 | 267 | 359 WP | Completed Comments | 3 TURNED OVER TO STREET DEPT. |
| 11-267-360 | 11-3026 | 107 63RD AVENUE | 09012011 | 11 | 267 | 360 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-360 | 11-3026 | 107 63RD AVENUE | 09012011 | 11 | 267 | 360 WP | Completed Comments | 1 ON US |
| 11-267-361 | 11-3027 | 1901 37TH AVENUE | 09012011 | 11 | 267 | 361 WO | Work Order Comment | 1 SEWER PROBLEM ON CUSTOMER |
| 11-267-361 | 11-3027 | 1901 37TH AVENUE | 09012011 | 11 | 267 | 361 WP | Completed Comments | 1 WAS ON THE HOMEOWNER |
| 11-267-362 | 11-3030 | 42ND AVENUE / ROYAL ROAD | 09022011 | 11 | 267 | 362 WO | Work Order Comment | 1 UN-STOP MANHOLE |
| 11-267-362 | 11-3030 | 42ND AVENUE / ROYAL ROAD | 09022011 | 11 | 267 | 362 WP | Completed Comments | 1 UNSTOP MANHOLE |
| 11-267-363 | 11-3049 | 2209 5TH STREET | 09072011 | 11 | 267 | 363 WO | Work Order Comment | 1 SMOKE SEWER |
| 11-267-363 | 11-3049 | 2209 5TH STREET | 09072011 | 11 | 267 | 363 WP | Completed Comments | 1 SMOKE SEWER |
| 11-267-364 | 11-3057 | 4024 31ST AVENUE | 09072011 | 11 | 267 | 364 WO | Work Order Comment | 1 SEWER PROBLEM ON CUSTOMER |
| 11-267-364 | 11-3057 | 4024 31ST AVENUE | 09072011 | 11 | 267 | 364 WP | Completed Comments | 1 ON CUSTOMER |
| 11-267-365 | 11-3058 | 2000 39TH AVE | 09072011 | 11 | 267 | 365 WO | Work Order Comment | 1 NO SEWER PROBLEM DETECTED |
| 11-267-365 | 11-3058 | 2000 39TH AVE | 09072011 | 11 | 267 | 365 WP | Completed Comments | 2 THE MANHOLES ALL LOOKED GOOD AND ARE OPEN AND WORKING GOOD |
| 11-267-366 | 11-3059 | 39TH PLACE / 19TH COURT | 09072011 | 11 | 267 | 366 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-366 | 11-3059 | 39TH PLACE / 19TH COURT | 09072011 | 11 | 267 | 366 WP | Completed Comments | 1 ON THEM |
| 11-267-367 | 11-3060 | 317 46TH AVENUE | 09072011 | 11 | 267 | 367 WO | Work Order Comment | 1 SEWER ODOR |
| 11-267-367 | 11-3060 | 317 46TH AVENUE | 09072011 | 11 | 267 | 367 WP | Completed Comments | 1 ON THEM |
| 11-267-368 | 11-3070 | 12TH AVE / 19TH STREET | 09082011 | 11 | 267 | 368 WO | Work Order Comment | 1 ON CUSTOMER |
| 11-267-368 | 11-3070 | 12TH AVE / 19TH STREET | 09082011 | 11 | 267 | 368 WP | Completed Comments | 1 ON CUSTOMER |
| 11-267-369 | 11-3072 | 42ND AVE / 8TH STREET | 09082011 | 11 | 267 | 369 WO | Work Order Comment | 1 FLUSH LINE |
| 11-267-369 | 11-3072 | 42ND AVE / 8TH STREET | 09082011 | 11 | 267 | 369 WP | Completed Comments | 1 FLUSH LINE AND UNSTOP MANHOLE |
| 11-267-370 | 11-3082 | 7203 BOUNDS RD | 09092011 | 11 | 267 | 370 WO | Work Order Comment | 1 SEWER TAP |
| 11-267-370 | 11-3082 | 7203 BOUNDS RD | 09092011 | 11 | 267 | 370 WP | Completed Comments | 3 LOCATE # 11081813490702 |
| 11-267-370 | 11-3082 | 7203 BOUNDS RD | 09092011 | 11 | 267 | 370 WP | Completed Comments | 1 8" SEWER TAP; SET MANHOLE. RUN A 6" SEWER PIPE PVC SOUTH OF |
| 11-267-371 | 11-3088 | 5833 19TH AVENUE | 09092011 | 11 | 267 | 371 WO | Work Order Comment | 2 MANHOLE AND RUN 6" PVC PIPE EAST OUT OF MANHOLE. |
| 11-267-371 | 11-3088 | 5833 19TH AVENUE | 09092011 | 11 | 267 | 371 WP | Completed Comments | 1 SEWER WAS OPEN AND RUNNING |
| 11-267-372 | 11-3089 | 1900 12TH AVENUE | 09092011 | 11 | 267 | 372 WO | Work Order Comment | 1 SEWER WAS OPEN AND RUNNING |
| 11-267-372 | 11-3089 | 1900 12TH AVENUE | 09092011 | 11 | 267 | 372 WP | Completed Comments | 1 SEWER WAS OPEN AND RUNNING |
| 11-267-373 | 11-3102 | B STREET BETWEEN 17TH & 18TH AVENUE | 09132011 | 11 | 267 | 373 WO | Work Order Comment | 1 SEWER WAS OPEN AND RUNNING |
| 11-267-373 | 11-3102 | B STREET BETWEEN 17TH & 18TH AVENUE | 09132011 | 11 | 267 | 373 WP | Completed Comments | 1 REPLACE MANHOLE COVER |
| 11-267-374 | 11-3103 | 4518 NORTH HILL STREET | 09132011 | 11 | 267 | 374 WO | Work Order Comment | 1 REPLACE MANHOLE COVER |
| 11-267-374 | 11-3103 | 4518 NORTH HILL STREET | 09132011 | 11 | 267 | 374 WP | Completed Comments | 1 SEWER PROBLEM ON CUSTOMER |
| 11-267-375 | 11-3104 | 23RD AVE / 25TH STREET | 09132011 | 11 | 267 | 375 WO | Work Order Comment | 1 PROBLEM ON CUSTOMER |
| 11-267-375 | 11-3104 | 23RD AVE / 25TH STREET | 09132011 | 11 | 267 | 375 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 11-267-376 | 11-3106 | 1320 45TH AVENUE | 09132011 | 11 | 267 | 376 WO | Work Order Comment | 1 COULD NOT FIND PROBLEM |
| 11-267-376 | 11-3106 | 1320 45TH AVENUE | 09132011 | 11 | 267 | 376 WP | Completed Comments | 1 UNSTOP SEWER |
| 11-267-377 | 11-3110 | 215 48TH AVENUE | 09132011 | 11 | 267 | 377 WO | Work Order Comment | 1 UNSTOP SEWER |
| 11-267-377 | 11-3110 | 215 48TH AVENUE | 09132011 | 11 | 267 | 377 WP | Completed Comments | 1 FLUSH LINE |

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| 11-267-377 | 11-3110 | 215 48TH AVENUE | 09132011 | 11 | 267 | 377 WP | Completed Comments | 1 FLUSHED LINE BUT WAS NOT STOPPED UP |
| 11-267-378 | 11-3121 | 435 56TH AVENUE | 09142011 | 11 | 267 | 378 WO | Work Order Comment | 1 SMOKE SEWER FOR CAVE-IN |
| 11-267-378 | 11-3121 | 435 56TH AVENUE | 09142011 | 11 | 267 | 378 WO | Work Order Comment | 3 LOCATE # 11091409290277 |
| 11-267-378 | 11-3121 | 435 56TH AVENUE | 09142011 | 11 | 267 | 378 WP | Completed Comments | 1 SMOKE SEWER FOR CAVE-IN |
| 11-267-379 | 11-3127 | 2241 POPLAR SPRINGS DRIVE | 09152011 | 11 | 267 | 379 WO | Work Order Comment | 1 SEWER TAP |
| 11-267-379 | 11-3127 | 2241 POPLAR SPRINGS DRIVE | 09152011 | 11 | 267 | 379 WO | Work Order Comment | 3 LOCATE # 11090913340567 |
| 11-267-379 | 11-3127 | 2241 POPLAR SPRINGS DRIVE | 09152011 | 11 | 267 | 379 WP | Completed Comments | 2 THE LINE WAS FULL OF GREASE AND WE HAD TO SUCK IT ALL OUT |
| 11-267-379 | 11-3127 | 2241 POPLAR SPRINGS DRIVE | 09152011 | 11 | 267 | 379 WP | Completed Comments | 3 THE GREASE APPARENTLY CAME FROM JEAN'S RESTURANT |
| 11-267-380 | 11-3132 | CAROUSEL PLACE | 09152011 | 11 | 267 | 380 WO | Work Order Comment | 1 MILLING PROJECT |
| 11-267-380 | 11-3132 | CAROUSEL PLACE | 09152011 | 11 | 267 | 380 WO | Work Order Comment | 2 TWO RINGS FOR MANHOLE. VALVE RAISED. ONE 24" MANHOLE TOP. |
| 11-267-380 | 11-3132 | CAROUSEL PLACE | 09152011 | 11 | 267 | 380 WP | Completed Comments | 1 TWO RING FOR MANHOLE. VALVE RAISE AND ONE MANHOLE TOP 24" |
| 11-267-381 | 11-3134 | 23RD AVENUE / 25TH STREET | 09152011 | 11 | 267 | 381 WO | Work Order Comment | 1 ---- ON THEM ---- |
| 11-267-381 | 11-3134 | 23RD AVENUE / 25TH STREET | 09152011 | 11 | 267 | 381 WP | Completed Comments | 1 ON THEM |
| 11-267-382 | 11-3135 | 3115 GRANDVIEW AVENUE | 09152011 | 11 | 267 | 382 WO | Work Order Comment | 1 SEWER PROBLEM ON US |
| 11-267-382 | 11-3135 | 3115 GRANDVIEW AVENUE | 09152011 | 11 | 267 | 382 WP | Completed Comments | 1 ON US. RUNNING IN CREEK; NEED TO PATCH STORM DRAIN |
| 11-267-383 | 11-3136 | 24TH STREET / 23RD AVENUE | 09152011 | 11 | 267 | 383 WO | Work Order Comment | 1 SEWER PROBLEM ON THEM |
| 11-267-383 | 11-3136 | 24TH STREET / 23RD AVENUE | 09152011 | 11 | 267 | 383 WP | Completed Comments | 1 INSTALLED NEW AIR RELIEF VALVE |
| 11-267-383 | 11-3136 | 24TH STREET / 23RD AVENUE | 09152011 | 11 | 267 | 383 WP | Completed Comments | 2 USED: 1 EACH 2" AIR RELIEF VALVE -- 1 EACH 2" X 4" NIPPLE |
| 11-267-383 | 11-3136 | 24TH STREET / 23RD AVENUE | 09152011 | 11 | 267 | 383 WP | Completed Comments | 3 1 EACH 1/2 X 2 NIPPLE -- 1 EACH 1/2" BALL VALVE |
| 11-267-383 | 11-3136 | 24TH STREET / 23RD AVENUE | 09152011 | 11 | 267 | 383 WP | Completed Comments | 4 TIME: 67-23 - 8 MAN-HOURS // 67-5 - 12 MAN-HOURS |
| 11-267-384 | 11-3143 | 46TH AVENUE / PACIFIC STREET | 09162011 | 11 | 267 | 384 WO | Work Order Comment | 1 SEWER LINE OK |
| 11-267-384 | 11-3143 | 46TH AVENUE / PACIFIC STREET | 09162011 | 11 | 267 | 384 WP | Completed Comments | 1 SEWER LINE OK |
| 11-267-385 | 11-3144 | PARKS AND RECREATION MAINTENANCE SH | 09162011 | 11 | 267 | 385 WO | Work Order Comment | 1 ---- ON THEM ---- |
| 11-267-385 | 11-3144 | PARKS AND RECREATION MAINTENANCE SH | 09162011 | 11 | 267 | 385 WP | Completed Comments | 1 ON THEM |
| 11-267-386 | 11-3145 | PAULDING STREET / 45TH AVENUE | 09162011 | 11 | 267 | 386 WO | Work Order Comment | 1 --- ON US --- |
| 11-267-386 | 11-3145 | PAULDING STREET / 45TH AVENUE | 09162011 | 11 | 267 | 386 WP | Completed Comments | 1 ON US |
| 11-267-387 | 11-3174 | 4503 PAULDING STREET | 09202011 | 11 | 267 | 387 WO | Work Order Comment | 1 SEWER PROBLEM ON THEM |
| 11-267-387 | 11-3174 | 4503 PAULDING STREET | 09202011 | 11 | 267 | 387 WP | Completed Comments | 1 ON THEM |
| 11-267-388 | 11-3176 | 523 36TH AVENUE | 09202011 | 11 | 267 | 388 WO | Work Order Comment | 1 SMOKE SEWER |
| 11-267-388 | 11-3176 | 523 36TH AVENUE | 09202011 | 11 | 267 | 388 WP | Completed Comments | 1 DIDN'T FIND ANYTHING |
| 11-267-389 | 11-3189 | 620 34TH AVENUE | 09212011 | 11 | 267 | 389 WO | Work Order Comment | 1 SEWER PROBLEM ON THEM |
| 11-267-389 | 11-3189 | 620 34TH AVENUE | 09212011 | 11 | 267 | 389 WP | Completed Comments | 1 ON THEM; LINE OPEN AND RUNNING |
| 11-267-390 | 11-3193 | 37TH AVENUE / 9TH STREET | 09212011 | 11 | 267 | 390 WO | Work Order Comment | 1 MANHOLE COVER OFF |
| 11-267-390 | 11-3193 | 37TH AVENUE / 9TH STREET | 09212011 | 11 | 267 | 390 WP | Completed Comments | 3 ***** ON THEM ***** |
| 11-267-391 | 11-3194 | 1923 33RD AVENUE | 09212011 | 11 | 267 | 391 WO | Work Order Comment | 1 ON THEM |
| 11-267-391 | 11-3194 | 1923 33RD AVENUE | 09212011 | 11 | 267 | 391 WP | Completed Comments | 3 ***** ON THEM ***** |
| 11-267-392 | 11-3209 | LINDLEY ROAD ACROSS FROM LAMAR SCHO | 09222011 | 11 | 267 | 392 WO | Work Order Comment | 1 SEWER ODOR |
| 11-267-392 | 11-3209 | LINDLEY ROAD ACROSS FROM LAMAR SCHO | 09222011 | 11 | 267 | 392 WP | Completed Comments | 1 ON THE CITY |
| 11-267-393 | 11-3211 | 5800 NORTH HILLS STREET | 09222011 | 11 | 267 | 393 WO | Work Order Comment | 1 STRONG SEWER ODOR |
| 11-267-393 | 11-3211 | 5800 NORTH HILLS STREET | 09222011 | 11 | 267 | 393 WP | Completed Comments | 1 ON THE CUSTOMER |
| 11-267-394 | 11-3212 | 3721 48TH COURT | 09222011 | 11 | 267 | 394 WO | Work Order Comment | 1 CHECK SEWER LINE |
| 11-267-394 | 11-3212 | 3721 48TH COURT | 09222011 | 11 | 267 | 394 WP | Completed Comments | 1 ON THE CITY |
| 11-267-395 | 11-3218 | LAKEVIEW PUMP HOUSE | 09232011 | 11 | 267 | 395 WO | Work Order Comment | 1 SHOOT WATER IN LINE |
| 11-267-395 | 11-3218 | LAKEVIEW PUMP HOUSE | 09232011 | 11 | 267 | 395 WP | Completed Comments | 1 ON US |
| 11-267-396 | 11-3220 | 360 56TH AVENUE | 09232011 | 11 | 267 | 396 WO | Work Order Comment | 1 SEWAGE BACKUP |
| 11-267-396 | 11-3220 | 360 56TH AVENUE | 09232011 | 11 | 267 | 396 WP | Completed Comments | 1 ON THEM |
| 11-267-396 | 11-3220 | 360 56TH AVENUE | 09232011 | 11 | 267 | 396 WP | Completed Comments | 3 ***** THEY ARE ON CITY SEWER ***** |
| 11-267-397 | 11-3223 | 26TH AVENUE UNDERPASS | 09232011 | 11 | 267 | 397 WO | Work Order Comment | 1 CHECK MANHOLE |
| 11-267-397 | 11-3223 | 26TH AVENUE UNDERPASS | 09232011 | 11 | 267 | 397 WP | Completed Comments | 1 MANHOLE IS OK |
| 11-267-398 | 11-3229 | 110 15TH PLACE | 09232011 | 11 | 267 | 398 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 11-267-398 | 11-3229 | 110 15TH PLACE | 09232011 | 11 | 267 | 398 WP | Completed Comments | 1 ON THEM |
| 11-267-400 | 11-3245 | 47TH AVENUE BETWEEN 13TH / 14TH STS | 09282011 | 11 | 267 | 400 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-400 | 11-3245 | 47TH AVENUE BETWEEN 13TH / 14TH STS | 09282011 | 11 | 267 | 400 WP | Completed Comments | 1 ON THEM |
| 11-267-401 | 11-3246 | 1812 APACHE RIDGE ROAD | 09282011 | 11 | 267 | 401 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-402 | 11-3247 | 3201 63RD PLACE | 09282011 | 11 | 267 | 402 WO | Work Order Comment | 1 CHECK SEWER LINES |
| 11-267-402 | 11-3247 | 3201 63RD PLACE | 09282011 | 11 | 267 | 402 WP | Completed Comments | 1 ON THEM |
| 11-267-403 | 11-3248 | 3800 ROYAL ROAD | 09282011 | 11 | 267 | 403 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-403 | 11-3248 | 3800 ROYAL ROAD | 09282011 | 11 | 267 | 403 WP | Completed Comments | 1 ON US |
| 11-267-404 | 11-3259 | 5938 1ST STREET | 09292011 | 11 | 267 | 404 WO | Work Order Comment | 1 SEWER PROBLEM |

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|------------|---------|----------------------------------|----------|----|-----|---------|--------------------|---|
| 11-267-404 | 11-3259 | 5938 1ST STREET | 09292011 | 11 | 267 | 404 WP | Completed Comments | 1 TURN OVER TO STREET DEPT STORM SEWER |
| 11-267-405 | 11-3260 | 26TH AVENUE / 4TH STREET | 09292011 | 11 | 267 | 405 WO | Work Order Comment | 1 SUCK OUT WATER AT THE OLD NEWELL PAPER CO |
| 11-267-405 | 11-3260 | 26TH AVENUE / 4TH STREET | 09292011 | 11 | 267 | 405 WP | Completed Comments | 1 ON US |
| 11-267-406 | 11-3261 | BONITA DRIVE LIFT STATION | 09292011 | 11 | 267 | 406 WO | Work Order Comment | 1 LIFT STATION STOPPED UP |
| 11-267-406 | 11-3261 | BONITA DRIVE LIFT STATION | 09292011 | 11 | 267 | 406 WP | Completed Comments | 1 ON US |
| 11-267-407 | 11-3266 | 29TH AVENUE / SOWASHEE CREEK | 09302011 | 11 | 267 | 407 WO | Work Order Comment | 1 SEWER GOING INTO CREEK |
| 11-267-409 | 11-3284 | 2908 HARRIS STREET | 10032011 | 11 | 267 | 409 WO | Work Order Comment | 1 SMOKE SEWER (CHECK SEWER LINE FOR LEAK) |
| 11-267-409 | 11-3284 | 2908 HARRIS STREET | 10032011 | 11 | 267 | 409 WP | Completed Comments | 1 SMOKE SEWER |
| 11-267-410 | 11-3285 | 15TH AVENUE / 63RD STREET | 10032011 | 11 | 267 | 410 WO | Work Order Comment | 1 MANHOLE BACKED UP |
| 11-267-411 | 11-3286 | 5TH STREET / 48TH AVENUE | 10032011 | 11 | 267 | 411 WO | Work Order Comment | 1 MANHOLE BACKED UP |
| 11-267-411 | 11-3286 | 5TH STREET / 48TH AVENUE | 10032011 | 11 | 267 | 411 WP | Completed Comments | 1 ON THEM |
| 11-267-412 | 11-3287 | 6253 14TH AVENUE | 10032011 | 11 | 267 | 412 WO | Work Order Comment | 1 MANHOLE BACKED UP |
| 11-267-412 | 11-3287 | 6253 14TH AVENUE | 10032011 | 11 | 267 | 412 WP | Completed Comments | 1 ON THEM |
| 11-267-140 | 11-1000 | 5407 MANNING STREET | 03102011 | 11 | 267 | 1000 WO | Work Order Comment | 1 ASSISTED STREET DIVISION |
| 11-267-140 | 11-1000 | 5407 MANNING STREET | 03102011 | 11 | 267 | 1000 WP | Completed Comments | 2 ***** ASSISTED STREET DIVISION ***** |
| 11-267-141 | 11-1001 | 312 44TH AVENUE | 03102011 | 11 | 267 | 1001 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-141 | 11-1001 | 312 44TH AVENUE | 03102011 | 11 | 267 | 1001 WP | Completed Comments | 3 ***** ON THEM ***** |
| 11-267-142 | 11-1002 | 3101 WEST LAKE DRIVE | 03102011 | 11 | 267 | 1001 WP | Completed Comments | 2 ***** ON THEM ***** |
| 11-267-143 | 11-1014 | 1636 KEY AVENUE | 03102011 | 11 | 267 | 1002 WO | Work Order Comment | 1 MANHOLE O/F |
| 11-267-143 | 11-1014 | 1636 KEY AVENUE | 03102011 | 11 | 267 | 1014 WO | Work Order Comment | 1 CAVE IN? |
| 11-267-144 | 11-1082 | 1731 PINEVIEW CIRCLE | 03172011 | 11 | 267 | 1082 WO | Work Order Comment | 3 LOCATE #11031012580559 |
| 11-267-144 | 11-1082 | 1731 PINEVIEW CIRCLE | 03172011 | 11 | 267 | 1082 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-144 | 11-1082 | 1731 PINEVIEW CIRCLE | 03172011 | 11 | 267 | 1082 WO | Work Order Comment | 2 ROBERT JORDAN, PLUMBER / RANSOM CROSS, HOMEOWNER |
| 11-267-144 | 11-1082 | 1731 PINEVIEW CIRCLE | 03172011 | 11 | 267 | 1082 WO | Work Order Comment | 3 LOCATE #11031712180586 |
| 11-267-144 | 11-1082 | 1731 PINEVIEW CIRCLE | 03172011 | 11 | 267 | 1082 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5110 |
| 11-267-144 | 11-1082 | 1731 PINEVIEW CIRCLE | 03172011 | 11 | 267 | 1082 WP | Completed Comments | 2 2 SECTIONS SEWER PIPE - 4 INCH |
| 11-267-145 | 11-1127 | 49TH AVENUE / PACIFIC STREET | 03212011 | 11 | 267 | 1082 WP | Completed Comments | 3 1 4 INCH SEWER TAPPING SADDLE |
| 11-267-145 | 11-1127 | 49TH AVENUE / PACIFIC STREET | 03212011 | 11 | 267 | 1127 WO | Work Order Comment | 1 SEWER CAVE IN |
| 11-267-145 | 11-1127 | 49TH AVENUE / PACIFIC STREET | 03212011 | 11 | 267 | 1127 WO | Work Order Comment | 3 LOCATE #11032116361222 |
| 11-267-145 | 11-1127 | 49TH AVENUE / PACIFIC STREET | 03212011 | 11 | 267 | 1127 WP | Completed Comments | 4 *****VOID ***** DUPLICATE ***** |
| 11-267-146 | 11-1142 | 4912 HOOPER STREET | 03232011 | 11 | 267 | 1127 WO | Work Order Comment | 2 ***** DUPLICATE ***** |
| 11-267-147 | 11-1146 | 65TH AVENUE LIFT STATION | 03232011 | 11 | 267 | 1142 WO | Work Order Comment | 1 SEWER SMELL |
| 11-267-147 | 11-1146 | 65TH AVENUE LIFT STATION | 03232011 | 11 | 267 | 1146 WO | Work Order Comment | 1 ROAD TO LIFT STATION WASHING AWAY |
| 11-267-148 | 11-1169 | 2680 SELLERS DRIVE | 03242011 | 11 | 267 | 1146 WP | Completed Comments | 2 ROAD IS INTACT -- NO PROBLEM FOUND |
| 11-267-148 | 11-1169 | 2680 SELLERS DRIVE | 03242011 | 11 | 267 | 1169 WO | Work Order Comment | 1 SEWER TAP -- 6 INCH TAP |
| 11-267-148 | 11-1169 | 2680 SELLERS DRIVE | 03242011 | 11 | 267 | 1169 WO | Work Order Comment | 2 THE SERVICE COMPANY |
| 11-267-148 | 11-1169 | 2680 SELLERS DRIVE | 03242011 | 11 | 267 | 1169 WO | Work Order Comment | 3 LOCATE #11032110310382 |
| 11-267-149 | 11-1171 | 49TH AVENUE / PACIFIC STREET | 03242011 | 11 | 267 | 1169 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5111 |
| 11-267-149 | 11-1171 | 49TH AVENUE / PACIFIC STREET | 03242011 | 11 | 267 | 1171 WO | Work Order Comment | 1 CAVE IN |
| 11-267-150 | 11-1184 | 4912 HOOPER STREET | 03242011 | 11 | 267 | 1171 WO | Work Order Comment | 3 LOCATE #11032116361222 |
| 11-267-150 | 11-1184 | 4912 HOOPER STREET | 03242011 | 11 | 267 | 1184 WO | Work Order Comment | 1 SEWER PROBLEML |
| 11-267-151 | 11-1185 | 1425 5TH STREET | 03252011 | 11 | 267 | 1184 WP | Completed Comments | 2 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-151 | 11-1185 | 1425 5TH STREET | 03252011 | 11 | 267 | 1185 WO | Work Order Comment | 1 REPAIR CAVE IN UNDER SIDEWALK |
| 11-267-151 | 11-1185 | 1425 5TH STREET | 03252011 | 11 | 267 | 1185 WO | Work Order Comment | 3 LOCATE #11032509250197 |
| 11-267-152 | 11-1199 | GRAND AVENUE / 14TH STREET SOUTH | 03252011 | 11 | 267 | 1185 WP | Completed Comments | 2 WAS ON STORM DRAIN - TURNED OVER TO STREET DEPARTMENT |
| 11-267-153 | 11-1201 | 3101 GRANDVIEW | 03252011 | 11 | 267 | 1199 WO | Work Order Comment | 1 CAVE IN? |
| 11-267-153 | 11-1201 | 3101 GRANDVIEW | 03252011 | 11 | 267 | 1201 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-154 | 11-1202 | 6119 32ND STREET | 03252011 | 11 | 267 | 1201 WO | Work Order Comment | 3 LOCATE #11032513000556 |
| 11-267-154 | 11-1202 | 6119 32ND STREET | 03252011 | 11 | 267 | 154 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-154 | 11-1202 | 6119 32ND STREET | 03252011 | 11 | 267 | 154 WO | Work Order Comment | 2 DARRELL ROWZEE, PLUMBER / JOEY BREEN, HOMEOWNER |
| 11-267-154 | 11-1202 | 6119 32ND STREET | 03252011 | 11 | 267 | 154 WO | Work Order Comment | 3 LOCATE #10110210160231 |
| 11-267-154 | 11-1202 | 6119 32ND STREET | 03252011 | 11 | 267 | 154 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5095 |
| 11-267-155 | 11-1205 | 1204 26TH STREET | 03252011 | 11 | 267 | 1202 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-156 | 11-1219 | 5363 8TH STREET EXTENSION | 03282011 | 11 | 267 | 1205 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-156 | 11-1219 | 5363 8TH STREET EXTENSION | 03282011 | 11 | 267 | 156 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-156 | 11-1219 | 5363 8TH STREET EXTENSION | 03282011 | 11 | 267 | 156 WO | Work Order Comment | 2 LEO FLUKER PLUMBER / BRENDA WILSON |
| 11-267-156 | 11-1219 | 5363 8TH STREET EXTENSION | 03282011 | 11 | 267 | 156 WO | Work Order Comment | 3 LOCATE #110816351359 |
| 11-267-156 | 11-1219 | 5363 8TH STREET EXTENSION | 03282011 | 11 | 267 | 156 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5097 |
| 11-267-156 | 11-1219 | 5363 8TH STREET EXTENSION | 03282011 | 11 | 267 | 1219 WO | Work Order Comment | 1 GAS CONTRACTOR GOT SEWER LINE |

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|------------|---------|----------------------------|----------|----|-----|---------|--------------------|--|
| 11-267-157 | 11-1221 | 49TH AVENUE / 5TH STREET | 03282011 | 11 | 267 | 157 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 11-267-157 | 11-1221 | 49TH AVENUE / 5TH STREET | 03282011 | 11 | 267 | 157 WO | Work Order Comment | 3 LOCATE #10110908140107 |
| 11-267-157 | 11-1221 | 49TH AVENUE / 5TH STREET | 03282011 | 11 | 267 | 1221 WO | Work Order Comment | 1 ASSIST 144 |
| 11-267-158 | 11-1223 | 717 57TH AVENUE | 03282011 | 11 | 267 | 1223 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-158 | 11-1223 | 717 57TH AVENUE | 03282011 | 11 | 267 | 1223 WO | Work Order Comment | 3 ***** ON CUSTOMER -- UNDER HERE HOUSE ***** |
| 11-267-158 | 11-1223 | 717 57TH AVENUE | 03282011 | 11 | 267 | 1223 WP | Completed Comments | 1 SHOT LINE IN STREET GOOD BUT PROBLEM WAS NOT ON US |
| 11-267-158 | 11-1223 | 717 57TH AVENUE | 03282011 | 11 | 267 | 1223 WP | Completed Comments | 3 *****ON CUSTOMER -- UNDER HER HOUSE ***** |
| 11-267-159 | 11-1274 | 3401 11TH STREET | 04012011 | 11 | 267 | 1274 WO | Work Order Comment | 1 CAVE IN |
| 11-267-159 | 11-1274 | 3401 11TH STREET | 04012011 | 11 | 267 | 1274 WO | Work Order Comment | 3 LOCATE #11033114320629 |
| 11-267-160 | 11-1283 | 3550 27TH AVENUE | 04042011 | 11 | 267 | 1283 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-161 | 11-1284 | 3800 OLD MARION ROAD | 04042011 | 11 | 267 | 1284 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-161 | 11-1284 | 3800 OLD MARION ROAD | 04042011 | 11 | 267 | 1284 WO | Work Order Comment | 3 ***** ON THEM ***** |
| 11-267-162 | 11-1285 | 1507 43RD STREET | 04042011 | 11 | 267 | 1285 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-163 | 11-1314 | 2612 19TH STREET | 04062011 | 11 | 267 | 163 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-164 | 11-1315 | 2908 56TH COURT | 04062011 | 11 | 267 | 164 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 11-267-165 | 11-1317 | 209 39TH COURT | 04062011 | 11 | 267 | 165 WO | Work Order Comment | 1 REPAIR LINE - GAS CO HIT SEWER LINE |
| 11-267-166 | 11-1324 | 2906 56TH COURT | 04062011 | 11 | 267 | 166 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-166 | 11-1324 | 2906 56TH COURT | 04062011 | 11 | 267 | 166 WO | Work Order Comment | 3 ***** ON THEM ***** |
| 11-267-166 | 11-1324 | 2906 56TH COURT | 04062011 | 11 | 267 | 166 WP | Completed Comments | 2 ***** ON THEM ***** |
| 11-267-167 | 11-1325 | 406 46TH AVENUE | 04062011 | 11 | 267 | 167 WO | Work Order Comment | 1 GAS CO GOT SEWER LINE |
| 11-267-168 | 11-1326 | 6510 NORTH HILLS STREET | 04062011 | 11 | 267 | 168 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-169 | 11-1327 | 26TH STREET / 10TH AVENUE | 04062011 | 11 | 267 | 169 WO | Work Order Comment | 1 REPLACE MANHOLE COVER |
| 11-267-170 | 11-1331 | 6138 HWY 493 | 04062011 | 11 | 267 | 170 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-170 | 11-1331 | 6138 HWY 493 | 04062011 | 11 | 267 | 170 WO | Work Order Comment | 2 GREGG WEBB PLUMBER |
| 11-267-170 | 11-1331 | 6138 HWY 493 | 04062011 | 11 | 267 | 170 WO | Work Order Comment | 3 LOCATE #11040616471020 |
| 11-267-170 | 11-1331 | 6138 HWY 493 | 04062011 | 11 | 267 | 170 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5112 |
| 11-267-171 | 11-1359 | 1105 SOUTH FRONTAGE ROAD | 04122011 | 11 | 267 | 171 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-171 | 11-1359 | 1105 SOUTH FRONTAGE ROAD | 04122011 | 11 | 267 | 171 WO | Work Order Comment | 2 MC ELROY PLUMBING / PUCKETT RENTAL WASH RACK |
| 11-267-171 | 11-1359 | 1105 SOUTH FRONTAGE ROAD | 04122011 | 11 | 267 | 171 WO | Work Order Comment | 3 LOCATE #11041117041277 |
| 11-267-171 | 11-1359 | 1105 SOUTH FRONTAGE ROAD | 04122011 | 11 | 267 | 172 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5113 |
| 11-267-172 | 11-1375 | 2210 13TH STREET | 04142011 | 11 | 267 | 173 WO | Work Order Comment | 1 SMOKE SEWER |
| 11-267-173 | 11-1377 | 1306 12TH AVENUE | 04142011 | 11 | 267 | 173 WO | Work Order Comment | 1 SEWER |
| 11-267-173 | 11-1377 | 1306 12TH AVENUE | 04142011 | 11 | 267 | 173 WO | Work Order Comment | 2 CHECK MANHOLE |
| 11-267-174 | 11-1466 | NORTHEAST PARK LIFTSTATION | 04182011 | 11 | 267 | 174 WO | Work Order Comment | 1 SEWER |
| 11-267-175 | 11-1468 | 437 WINDOVER CIRCLE | 04182011 | 11 | 267 | 175 WO | Work Order Comment | 1 SEWER |
| 11-267-175 | 11-1468 | 437 WINDOVER CIRCLE | 04182011 | 11 | 267 | 175 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-176 | 11-1469 | 301 46CT | 04182011 | 11 | 267 | 176 WO | Work Order Comment | 1 SEWER |
| 11-267-176 | 11-1469 | 301 46CT | 04182011 | 11 | 267 | 176 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-177 | 11-1472 | MLK 22ND ST | 04182011 | 11 | 267 | 177 WO | Work Order Comment | 1 ASSIST 144 (FLUSH TRUCK) |
| 11-267-177 | 11-1472 | MLK 22ND ST | 04182011 | 11 | 267 | 177 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-178 | 11-1473 | 218 MLK | 04182011 | 11 | 267 | 178 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-178 | 11-1473 | 218 MLK | 04182011 | 11 | 267 | 178 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-179 | 11-1475 | LYZELIA RD VANZYVERDEN RD | 04182011 | 11 | 267 | 179 WO | Work Order Comment | 1 STREET DEPT GOT SEWER LINE |
| 11-267-180 | 11-1477 | 29TH AVE ST LUKE ST | 04182011 | 11 | 267 | 180 WO | Work Order Comment | 1 ASPHALT IN MANHOLE |
| 11-267-181 | 11-1480 | 20TH AVE 4TH ST | 04182011 | 11 | 267 | 181 WO | Work Order Comment | 1 ASSIST 144 |
| 11-267-181 | 11-1480 | 20TH AVE 4TH ST | 04182011 | 11 | 267 | 181 WP | Completed Comments | 1 ASSIST 144 |
| 11-267-181 | 11-1480 | 20TH AVE 4TH ST | 04182011 | 11 | 267 | 182 WO | Work Order Comment | 2 *****ON THEM***** |
| 11-267-182 | 11-1481 | 4901 14TH ST | 04182011 | 11 | 267 | 183 WO | Work Order Comment | 1 BAD SEWER SMELL |
| 11-267-183 | 11-1482 | 1901 37TH AVE | 04182011 | 11 | 267 | 183 WP | Completed Comments | 1 SEWER BACKUP |
| 11-267-183 | 11-1482 | 1901 37TH AVE | 04182011 | 11 | 267 | 184 WO | Work Order Comment | 2 *****ON THEM***** |
| 11-267-184 | 11-1485 | 5723 VALLEY ST | 04182011 | 11 | 267 | 184 WP | Completed Comments | 1 SEWER |
| 11-267-184 | 11-1485 | 5723 VALLEY ST | 04182011 | 11 | 267 | 185 WO | Work Order Comment | 1 FLUSHED OUT LINE - GOOD |
| 11-267-185 | 11-1496 | 11TH AVE BST | 04182011 | 11 | 267 | 185 WP | Completed Comments | 1 ASSIST 144 |
| 11-267-185 | 11-1496 | 11TH AVE BST | 04182011 | 11 | 267 | 186 WO | Work Order Comment | 1 FLUSH LINE - GOOD |
| 11-267-186 | 11-1497 | 3822 31ST ST | 04182011 | 11 | 267 | 186 WP | Completed Comments | 1 ASSIST 144 |
| 11-267-186 | 11-1497 | 3822 31ST ST | 04182011 | 11 | 267 | 187 WO | Work Order Comment | 1 FLUSH LINE - ON CUSTOMER |
| 11-267-187 | 11-1498 | 4301 HICKORY HILL CIRCLE | 04182011 | 11 | 267 | 187 WO | Work Order Comment | 1 SEWER |
| 11-267-187 | 11-1498 | 4301 HICKORY HILL CIRCLE | 04182011 | 11 | 267 | 187 WP | Completed Comments | 1 FLUSH LINE - GOOD |
| 11-267-188 | 11-1509 | 4716 14TH ST | 04192011 | 11 | 267 | 188 WO | Work Order Comment | 1 SEWER |

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|------------|---------|------------------------------------|----------|----|-----|--------|--------------------|--|
| 11-267-188 | 11-1509 | 4716 14TH ST | 04192011 | 11 | 267 | 188 WP | Completed Comments | 1 FLUSH LINE - STOPPED IT |
| 11-267-189 | 11-1512 | 1808-1806 16TH ST | 04192011 | 11 | 267 | 189 WO | Work Order Comment | 1 SEWER |
| 11-267-189 | 11-1512 | 1808-1806 16TH ST | 04192011 | 11 | 267 | 189 WP | Completed Comments | 1 FLUSH LINE GOOD ON THE CUSTOMER |
| 11-267-190 | 11-1514 | 1804-1808 16TH ST | 04192011 | 11 | 267 | 190 WO | Work Order Comment | 1 SEWER |
| 11-267-190 | 11-1514 | 1804-1808 16TH ST | 04192011 | 11 | 267 | 190 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-191 | 11-1536 | 22ND ST 20TH AVE | 04202011 | 11 | 267 | 191 WO | Work Order Comment | 1 ASSIST STREET DEPT |
| 11-267-191 | 11-1536 | 22ND ST 20TH AVE | 04202011 | 11 | 267 | 191 WP | Completed Comments | 1 FLUSH OUT DRAIN PIPE |
| 11-267-192 | 11-1537 | 67/9 | 04202011 | 11 | 267 | 192 WO | Work Order Comment | 1 SEWER |
| 11-267-192 | 11-1537 | 67/9 | 04202011 | 11 | 267 | 192 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-193 | 11-1555 | FRED CLAYTON DR | 04212011 | 11 | 267 | 193 WO | Work Order Comment | 1 LL |
| 11-267-193 | 11-1555 | FRED CLAYTON DR | 04212011 | 11 | 267 | 193 WO | Work Order Comment | 2 11042110090340 |
| 11-267-194 | 11-1559 | HIGHLAND PARK | 04212011 | 11 | 267 | 194 WO | Work Order Comment | 1 POOL STOPPED UP |
| 11-267-194 | 11-1559 | HIGHLAND PARK | 04212011 | 11 | 267 | 194 WP | Completed Comments | 1 FLUSH DRAIN PIPE AND UNSTOPPED LINE |
| 11-267-195 | 11-1560 | 1 3RD AVE S | 04212011 | 11 | 267 | 195 WO | Work Order Comment | 1 SEWER |
| 11-267-195 | 11-1560 | 1 3RD AVE S | 04212011 | 11 | 267 | 195 WP | Completed Comments | 1 FLUSH LINE - GOOD |
| 11-267-196 | 11-1570 | FRED CLAYTON DR/ CHIP PICKERING DR | 04222011 | 11 | 267 | 196 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-197 | 11-1571 | 6323 32ND ST | 04222011 | 11 | 267 | 197 WO | Work Order Comment | 1 REPAIRED SEWER |
| 11-267-199 | 11-1634 | 3830 27TH AVE | 04262011 | 11 | 267 | 199 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-200 | 11-1635 | 3646 23RD AVE | 04262011 | 11 | 267 | 200 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-201 | 11-1636 | 524 BONITA LAKES DR | 04262011 | 11 | 267 | 201 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-202 | 11-1642 | 825 65TH AVE | 04272011 | 11 | 267 | 202 WP | Completed Comments | 2 NO CAVE IN, DIRT HAS WASHED FROM FIXING LINE AND NEEDS DIRT |
| 11-267-203 | 11-1651 | 2417 B STREET | 04272011 | 11 | 267 | 203 WO | Work Order Comment | 1 CAVE IN |
| 11-267-203 | 11-1651 | 2417 B STREET | 04272011 | 11 | 267 | 203 WO | Work Order Comment | 2 LOCATE # 11042708510195 |
| 11-267-204 | 11-1669 | 17TH AVE A ST | 04282011 | 11 | 267 | 204 WO | Work Order Comment | 1 LOCATE #11042809170226 |
| 11-267-207 | 11-1680 | 10TH AVE 18TH ST | 04282011 | 11 | 267 | 207 WP | Completed Comments | 1 LINE FULL OF GREASE THE BUSINESS DOES NOT HAVE GREASE TRAP |
| 11-267-208 | 11-1703 | 2505 17TH ST | 05022011 | 11 | 267 | 208 WO | Work Order Comment | 1 SEWER |
| 11-267-208 | 11-1703 | 2505 17TH ST | 05022011 | 11 | 267 | 208 WO | Work Order Comment | 2 *****ON THEM***** |
| 11-267-209 | 11-1742 | 5017 4TH PLACE | 05022011 | 11 | 267 | 209 WP | Completed Comments | 1 ON CUSTOMER |
| 11-267-210 | 11-1743 | 26TH ST 19TH AVE | 05022011 | 11 | 267 | 210 WP | Completed Comments | 1 ON THEM |
| 11-267-211 | 11-1750 | 44TH AVE 10TH ST | 05022011 | 11 | 267 | 211 WO | Work Order Comment | 1 LOCATE# 11050210310483 |
| 11-267-212 | 11-1751 | 2005 42ND AVE | 05022011 | 11 | 267 | 212 WO | Work Order Comment | 1 LOCATE3 11050210380514 |
| 11-267-213 | 11-1753 | 4817 15TH PLACE | 05022011 | 11 | 267 | 213 WO | Work Order Comment | 1 MADE SEWER TAP 4 IN |
| 11-267-213 | 11-1753 | 4817 15TH PLACE | 05022011 | 11 | 267 | 213 WO | Work Order Comment | 2 PLUMBER - CHARLES TIBBETTS |
| 11-267-213 | 11-1753 | 4817 15TH PLACE | 05022011 | 11 | 267 | 213 WP | Completed Comments | 1 SEC 4' SEWER, 2 BAGS CEMENT |
| 11-267-214 | 11-1767 | 4607 25TH ST | 05032011 | 11 | 267 | 214 WO | Work Order Comment | 1 SMOKE SEWER TO VERIFY CUSTOMER ON CITY SEWER |
| 11-267-214 | 11-1767 | 4607 25TH ST | 05032011 | 11 | 267 | 214 WP | Completed Comments | 1 CUSTOMER IS ON CITY SEWER |
| 11-267-216 | 11-1772 | 5362 8TH ST EXT | 05032011 | 11 | 267 | 216 WO | Work Order Comment | 1 SEWER |
| 11-267-216 | 11-1772 | 5362 8TH ST EXT | 05032011 | 11 | 267 | 216 WP | Completed Comments | 1 WAS NOT A PROBLEM IN OUR SEWER LINE |
| 11-267-219 | 11-1775 | 1652 31ST ST | 05032011 | 11 | 267 | 219 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-219 | 11-1775 | 1652 31ST ST | 05032011 | 11 | 267 | 219 WP | Completed Comments | 1 FLUSH SEWER LINE - GOOD |
| 11-267-220 | 11-1784 | 1726 6TH AVE | 05042011 | 11 | 267 | 220 WO | Work Order Comment | 1 SMOKE SEWER TO VERIFY CUSTOMER IS ON CITY SEWER |
| 11-267-220 | 11-1784 | 1726 6TH AVE | 05042011 | 11 | 267 | 220 WP | Completed Comments | 1 SAID THE CUSTOMER WAS ON CITY SEWER |
| 11-267-221 | 11-1802 | 5227 31ST PL | 05042011 | 11 | 267 | 221 WO | Work Order Comment | 1 LOCATE #11050413390692 |
| 11-267-224 | 11-1808 | 29TH AVENUE 5TH STREET | 05052011 | 11 | 267 | 224 WP | Completed Comments | 1 ON US |
| 11-267-225 | 11-1809 | 616 55TH AVENUE | 05052011 | 11 | 267 | 225 WO | Work Order Comment | 1 *****ON THEM***** |
| 11-267-225 | 11-1809 | 616 55TH AVENUE | 05052011 | 11 | 267 | 225 WP | Completed Comments | 2 *****ON THEM***** |
| 11-267-228 | 11-1841 | 2701 WILLOWBENDS DR | 05052011 | 11 | 267 | 228 WO | Work Order Comment | 1 SEWER BETWEEN APARTMENTS AND BONITA |
| 11-267-229 | 11-1842 | 107 71ST PLACE | 05052011 | 11 | 267 | 229 WP | Completed Comments | 1 ON US |
| 11-267-230 | 11-1843 | 3300 OLD MARION RD | 05052011 | 11 | 267 | 230 WO | Work Order Comment | 1 SEWER |
| 11-267-230 | 11-1843 | 3300 OLD MARION RD | 05052011 | 11 | 267 | 230 WP | Completed Comments | 1 ON US |
| 11-267-231 | 11-1855 | 2418 45TH AVENUE | 05062011 | 11 | 267 | 231 WO | Work Order Comment | 1 *****ON CUSTOMER***** |
| 11-267-233 | 11-1880 | 5916 2ND ST | 05102011 | 11 | 267 | 233 WO | Work Order Comment | 1 SEWER |
| 11-267-234 | 11-1881 | 4520 COUNTRY CLUB DR | 05102011 | 11 | 267 | 234 WP | Completed Comments | 1 ON US |
| 11-267-235 | 11-1882 | 3101 WEST LAKE DR | 05102011 | 11 | 267 | 235 WP | Completed Comments | 1 ON US |
| 11-267-52 | 11-442 | 38TH AVENUE / HOOVER STREET | 01142011 | 11 | 267 | 442 WO | Work Order Comment | 1 REPAIR CAVE - IN |
| 11-267-52 | 11-442 | 38TH AVENUE / HOOVER STREET | 01142011 | 11 | 267 | 442 WO | Work Order Comment | 3 LOCATE #11011409540178 |
| 11-267-52 | 11-442 | 38TH AVENUE / HOOVER STREET | 01142011 | 11 | 267 | 442 WP | Completed Comments | 1 AFTER WE DUG DOWN ON THIS CAVE IN IT WAS DISCOVERED THAT THE |
| 11-267-52 | 11-442 | 38TH AVENUE / HOOVER STREET | 01142011 | 11 | 267 | 442 WP | Completed Comments | 2 CAVE IN WAS ON STORM DRAIN - TURNED IT OVER TO STREET DIV |
| 11-267-53 | 11-443 | 315 42ND AVENUE | 01142011 | 11 | 267 | 443 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |

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|-----------|--------|------------------------------|----------|----|-----|--------|--------------------|---|
| 11-267-53 | 11-443 | 315 42ND AVENUE | 01142011 | 11 | 267 | 443 WO | Work Order Comment | 3 LOCATE #11011409330153 |
| 11-267-53 | 11-443 | 315 42ND AVENUE | 01142011 | 11 | 267 | 443 WO | Work Order Comment | 4 UPGRADED TO EMERGENCY - #11011410140218 |
| 11-267-54 | 11-444 | 2922 18TH AVENUE | 01142011 | 11 | 267 | 444 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-54 | 11-444 | 2922 18TH AVENUE | 01142011 | 11 | 267 | 444 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-54 | 11-444 | 2922 18TH AVENUE | 01142011 | 11 | 267 | 444 WP | Completed Comments | 2 ***** ON CUSTOMER ***** |
| 11-267-55 | 11-447 | ST ANDREWS / CHANDLER STREET | 01142011 | 11 | 267 | 447 WO | Work Order Comment | 1 MANHOLE / SEWER LINE STOPPED UP PER HOUSING AUTHORITY |
| 11-267-56 | 11-448 | PINE CREEK APARTMENTS | 01142011 | 11 | 267 | 448 WO | Work Order Comment | 1 SEWER SMELL |
| 11-267-57 | 11-450 | 4521 B PLACE | 01142011 | 11 | 267 | 450 WO | Work Order Comment | 2 SEWER SMELL |
| 11-267-57 | 11-450 | 4521 B PLACE | 01142011 | 11 | 267 | 450 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-57 | 11-450 | 4521 B PLACE | 01142011 | 11 | 267 | 450 WP | Completed Comments | 2 ***** ON CUSTOMER ***** |
| 11-267-58 | 11-457 | 2322 VALLEY ROAD | 01172011 | 11 | 267 | 457 WO | Work Order Comment | 1 SMOKE SEWER AT NEW BUILDING FOR WATER BILLING TO SEE IF |
| 11-267-58 | 11-457 | 2322 VALLEY ROAD | 01172011 | 11 | 267 | 457 WO | Work Order Comment | 2 ON CITY SEWER |
| 11-267-58 | 11-457 | 2322 VALLEY ROAD | 01172011 | 11 | 267 | 457 WO | Work Order Comment | 4 ***** NEW BLDG IS NOT ON CITY SEWER ***** |
| 11-267-59 | 11-462 | 1727 26TH AVENUE | 01172011 | 11 | 267 | 462 WO | Work Order Comment | 1 DRESS UP AFTER SEWER LINES REPAIRED |
| 11-267-60 | 11-467 | 1309 B STREET | 01172011 | 11 | 267 | 467 WO | Work Order Comment | 1 MANHOLE COVER GONE |
| 11-267-61 | 11-468 | ST ANDREWS / CHANDLER | 01172011 | 11 | 267 | 468 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 11-267-62 | 11-473 | 1506 / 1509 10TH AVENUE | 01172011 | 11 | 267 | 473 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-62 | 11-473 | 1506 / 1509 10TH AVENUE | 01172011 | 11 | 267 | 473 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-63 | 11-482 | 1006 SOUTH MYRTLE DRIVE | 01172011 | 11 | 267 | 482 WO | Work Order Comment | 1 LIFT STATION PROBLEM |
| 11-267-64 | 11-483 | DOGWOOD DRIVE LIFT STATION | 01172011 | 11 | 267 | 483 WO | Work Order Comment | 1 LIGHT FLASHING |
| 11-267-65 | 11-505 | 554 65TH AVENUE | 01182011 | 11 | 267 | 505 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-65 | 11-505 | 554 65TH AVENUE | 01182011 | 11 | 267 | 505 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-65 | 11-505 | 554 65TH AVENUE | 01182011 | 11 | 267 | 505 WP | Completed Comments | 1 ***** OUR LINE OPEN AND RUNNING CLEAN ***** |
| 11-267-65 | 11-505 | 554 65TH AVENUE | 01182011 | 11 | 267 | 505 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 11-267-66 | 11-506 | HICKORY HILLS CIRCLE | 01182011 | 11 | 267 | 506 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-67 | 11-507 | 212 39TH COURT | 01182011 | 11 | 267 | 507 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-67 | 11-507 | 212 39TH COURT | 01182011 | 11 | 267 | 507 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-67 | 11-507 | 212 39TH COURT | 01182011 | 11 | 267 | 507 WP | Completed Comments | 1 OUR LINE OPEN AND RUNNING CLEAN |
| 11-267-67 | 11-507 | 212 39TH COURT | 01182011 | 11 | 267 | 507 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 11-267-68 | 11-508 | NEW CALL CENTER | 01182011 | 11 | 267 | 508 WO | Work Order Comment | 1 SEWER ODOR |
| 11-267-69 | 11-509 | 325 44TH AVENUE | 01182011 | 11 | 267 | 69 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 11-267-69 | 11-509 | 325 44TH AVENUE | 01182011 | 11 | 267 | 69 WO | Work Order Comment | 3 EMERGENCY LOCATE #10101408490167 |
| 11-267-69 | 11-509 | 325 44TH AVENUE | 01182011 | 11 | 267 | 509 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 70 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 70 WO | Work Order Comment | 2 JSMES HURTT PLUMBER / HABITAT FOR HUMANITY |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 70 WO | Work Order Comment | 3 LOCATE #10101409590326 |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 70 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5092 |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 510 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 510 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-70 | 11-510 | 519 B STREET | 01182011 | 11 | 267 | 510 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 11-267-71 | 11-512 | 5603 CHEROKEE | 01182011 | 11 | 267 | 512 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-71 | 11-512 | 5603 CHEROKEE | 01182011 | 11 | 267 | 512 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-71 | 11-512 | 5603 CHEROKEE | 01182011 | 11 | 267 | 512 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 11-267-72 | 11-513 | 611 22ND AVENUE SOUTH | 01182011 | 11 | 267 | 513 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-72 | 11-513 | 611 22ND AVENUE SOUTH | 01182011 | 11 | 267 | 513 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-72 | 11-513 | 611 22ND AVENUE SOUTH | 01182011 | 11 | 267 | 513 WP | Completed Comments | 2 ***** ON CUSTOMER ***** |
| 11-267-73 | 11-515 | 4805 29TH AVENUE | 01182011 | 11 | 267 | 515 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-73 | 11-515 | 4805 29TH AVENUE | 01182011 | 11 | 267 | 515 WO | Work Order Comment | 2 BARBER AND SONS / SQUEALER'S BBQ |
| 11-267-73 | 11-515 | 4805 29TH AVENUE | 01182011 | 11 | 267 | 515 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5107 |
| 11-267-74 | 11-540 | 3217 52ND STREET | 01192011 | 11 | 267 | 74 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH |
| 11-267-74 | 11-540 | 3217 52ND STREET | 01192011 | 11 | 267 | 74 WO | Work Order Comment | 2 DARRYL ROWZEE, PLUMBER / DAVID MC CARY, HOMEOWNER |
| 11-267-74 | 11-540 | 3217 52ND STREET | 01192011 | 11 | 267 | 74 WO | Work Order Comment | 3 LOCATE #10101415080855 |
| 11-267-74 | 11-540 | 3217 52ND STREET | 01192011 | 11 | 267 | 74 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5093 |
| 11-267-75 | 11-541 | 554 65TH AVENUE | 01192011 | 11 | 267 | 540 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-75 | 11-541 | 554 65TH AVENUE | 01192011 | 11 | 267 | 541 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-75 | 11-541 | 554 65TH AVENUE | 01192011 | 11 | 267 | 541 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-75 | 11-541 | 554 65TH AVENUE | 01192011 | 11 | 267 | 541 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 11-267-76 | 11-542 | 324 45TH COURT | 01192011 | 11 | 267 | 542 WO | Work Order Comment | 1 SEWER SMELL |
| 11-267-77 | 11-544 | 5303 31ST PLACE | 01192011 | 11 | 267 | 544 WO | Work Order Comment | 1 SEWER PROBLEM |

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| 11-267-78 | 11-547 | 1719 26TH AVENUE | 01202011 | 11 | 267 | 547 WO | Work Order Comment | 1 DRESS UP WHERE REPAIRS MADE |
| 11-267-79 | 11-549 | 611 22ND AVENUE SOUTH | 01202011 | 11 | 267 | 549 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-79 | 11-549 | 611 22ND AVENUE SOUTH | 01202011 | 11 | 267 | 549 WO | Work Order Comment | 2 ROTO ROOTER SAYS BROKE DOWN UNDER STREET |
| 11-267-80 | 11-558 | 2110 HWY 19 NORTH | 01202011 | 11 | 267 | 558 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-80 | 11-558 | 2110 HWY 19 NORTH | 01202011 | 11 | 267 | 558 WO | Work Order Comment | 2 MC ELROY PLUMBING / TRACTOR SUPPLY |
| 11-267-80 | 11-558 | 2110 HWY 19 NORTH | 01202011 | 11 | 267 | 558 WO | Work Order Comment | 3 LOCATE #11012009390232 |
| 11-267-80 | 11-558 | 2110 HWY 19 NORTH | 01202011 | 11 | 267 | 558 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5105 |
| 11-267-81 | 11-562 | 5306 CHEROKEE ROAD | 01202011 | 11 | 267 | 558 WP | Completed Comments | 2 CONTRACTOR MADE TAP |
| 11-267-81 | 11-562 | 5306 CHEROKEE ROAD | 01202011 | 11 | 267 | 562 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 11-267-81 | 11-562 | 5306 CHEROKEE ROAD | 01202011 | 11 | 267 | 562 WO | Work Order Comment | 3 LOCATE #11011916410677 |
| 11-267-82 | 11-565 | 628 65TH AVENUE | 01202011 | 11 | 267 | 562 WP | Completed Comments | 2 USED 10 FEET PVC PIPE AND 2 CLAY TO PVC COUPLINGS |
| 11-267-83 | 11-581 | 53RD AVENUE / 31ST PLACE | 01202011 | 11 | 267 | 565 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-84 | 11-583 | 4701 - A PSD | 01212011 | 11 | 267 | 581 WO | Work Order Comment | 1 ASSIST 144 / FLUSH OUT INLETS |
| 11-267-85 | 11-591 | 114 HWY 11/80E | 01212011 | 11 | 267 | 583 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-86 | 11-593 | 325 44TH AVENUE | 01242011 | 11 | 267 | 591 WO | Work Order Comment | 1 RAISE MANHOLE |
| 11-267-86 | 11-593 | 325 44TH AVENUE | 01242011 | 11 | 267 | 593 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-86 | 11-593 | 325 44TH AVENUE | 01242011 | 11 | 267 | 593 WO | Work Order Comment | 3 ***** ON THEM ***** |
| 11-267-87 | 11-598 | 5725 HWY 39 NORTH | 01242011 | 11 | 267 | 593 WP | Completed Comments | 3 ***** ON THEM ***** |
| 11-267-88 | 11-600 | 519 HWY 19S | 01242011 | 11 | 267 | 598 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-88 | 11-600 | 519 HWY 19S | 01242011 | 11 | 267 | 600 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-88 | 11-600 | 519 HWY 19S | 01242011 | 11 | 267 | 600 WO | Work Order Comment | 2 TRUCKERS SUPPLY NEW ADDITION / CHARLES TIBBETTS |
| 11-267-88 | 11-600 | 519 HWY 19S | 01242011 | 11 | 267 | 600 WO | Work Order Comment | 3 LOCATE #11012416100930 |
| 11-267-89 | 11-603 | 5029 SHUMATE ROAD | 01252011 | 11 | 267 | 600 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5106 |
| 11-267-90 | 11-618 | 325 44TH AVENUE | 01262011 | 11 | 267 | 603 WO | Work Order Comment | 1 SEWER ODOR |
| 11-267-90 | 11-618 | 325 44TH AVENUE | 01262011 | 11 | 267 | 618 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-91 | 11-619 | LAKEMONT LAKE | 01262011 | 11 | 267 | 618 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-91 | 11-619 | LAKEMONT LAKE | 01262011 | 11 | 267 | 619 WO | Work Order Comment | 1 CHECK MANHOLES IN LAKE |
| 11-267-92 | 11-620 | CITY HALL | 01262011 | 11 | 267 | 619 WP | Completed Comments | 2 CLIFF CARPENTER AND DALE EDWARDS |
| 11-267-92 | 11-620 | CITY HALL | 01262011 | 11 | 267 | 620 WO | Work Order Comment | 1 BAD SEWER SMELL |
| 11-267-93 | 11-636 | 2214 A PLACE | 01262011 | 11 | 267 | 620 WO | Work Order Comment | 3 ***** COULD NOT FIND PROBLEM ***** |
| 11-267-94 | 11-637 | 2521 16TH STREET | 01262011 | 11 | 267 | 636 WO | Work Order Comment | 1 LIFT STATION LIGHT FLASHING |
| 11-267-94 | 11-637 | 2521 16TH STREET | 01262011 | 11 | 267 | 637 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-95 | 11-638 | 23RD STREET / MLK | 01262011 | 11 | 267 | 637 WO | Work Order Comment | 3 ***** ON THEM ***** |
| 11-267-96 | 11-647 | 3305 37TH COURT | 01272011 | 11 | 267 | 638 WO | Work Order Comment | 2 MANHOLE COVER GONE |
| 11-267-96 | 11-647 | 3305 37TH COURT | 01272011 | 11 | 267 | 96 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 11-267-97 | 11-648 | 611 22ND AVENUE SOUTH | 01272011 | 11 | 267 | 647 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 11-267-97 | 11-648 | 611 22ND AVENUE SOUTH | 01272011 | 11 | 267 | 648 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-98 | 11-653 | BONITA LAKES MALL / BELKS | 01272011 | 11 | 267 | 648 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-98 | 11-653 | BONITA LAKES MALL / BELKS | 01272011 | 11 | 267 | 98 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 11-267-98 | 11-653 | BONITA LAKES MALL / BELKS | 01272011 | 11 | 267 | 98 WO | Work Order Comment | 3 LOCATE #10102214550611 |
| 11-267-99 | 11-654 | 2521 16TH AVENUE | 01272011 | 11 | 267 | 653 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-99 | 11-654 | 2521 16TH AVENUE | 01272011 | 11 | 267 | 654 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-99 | 11-654 | 2521 16TH AVENUE | 01272011 | 11 | 267 | 654 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-100 | 11-659 | 22ND AVE HGTS / DOGWOOD DRIVE | 01282011 | 11 | 267 | 654 WP | Completed Comments | 2 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-101 | 11-660 | 4515 C PLACE | 01282011 | 11 | 267 | 659 WO | Work Order Comment | 1 REPLASTER MANHOLE CASTING |
| 11-267-101 | 11-660 | 4515 C PLACE | 01282011 | 11 | 267 | 660 WO | Work Order Comment | 1 SEWER SMELL |
| 11-267-102 | 11-666 | HILLCREST DRIVE / 22ND AVENUE HGTS | 01312011 | 11 | 267 | 660 WP | Completed Comments | 2 ***** NO SMELL FOUND ***** |
| 11-267-102 | 11-666 | HILLCREST DRIVE / 22ND AVENUE HGTS | 01312011 | 11 | 267 | 666 WO | Work Order Comment | 1 REPAIR MANHOLE / SEWER LINE |
| 11-267-103 | 11-667 | 4609 BROADMOOR DRIVE | 01312011 | 11 | 267 | 666 WP | Completed Comments | 2 WE REPLACED MANHOLE |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 667 WO | Work Order Comment | 1 MANHOLE COVER HALF OFF |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 104 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 104 WO | Work Order Comment | 2 DAVID STEVENS, HOMEOWNER / AL WILSON, PLUMBER |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 104 WO | Work Order Comment | 3 LOCATE #10102515191071 |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 104 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5094 |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 670 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 11-267-104 | 11-670 | 525 22ND AVENUE SOUTH | 02012011 | 11 | 267 | 670 WO | Work Order Comment | 3 LOCATE #11012715180703 |
| 11-267-105 | 11-672 | 2214 A AVENUE | 02012011 | 11 | 267 | 670 WP | Completed Comments | 1 USED 2 PIECES OF 4" SEWER PIPE AND 2 4" COUPLINGS |
| 11-267-105 | 11-672 | 2214 A AVENUE | 02012011 | 11 | 267 | 672 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 11-267-105 | 11-672 | 2214 A AVENUE | 02012011 | 11 | 267 | 672 WO | Work Order Comment | 3 EMERGENCY LOCATE #11020109360181 |

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| 11-267-106 | 11-691 | 1820 20TH AVENUE | 02012011 | 11 | 267 | 691 WO | Work Order Comment | 1 SMOKE SEWER |
| 11-267-106 | 11-691 | 1820 20TH AVENUE | 02012011 | 11 | 267 | 691 WO | Work Order Comment | 3 ***** NO SEWER PROBLEM FOUND ***** |
| 11-267-106 | 11-691 | 1820 20TH AVENUE | 02012011 | 11 | 267 | 691 WP | Completed Comments | 2 ***** NO SEWER PROBLEM ***** |
| 11-267-107 | 11-701 | 4001 HWY 11 / 80 EAST | 02022011 | 11 | 267 | 701 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-107 | 11-701 | 4001 HWY 11 / 80 EAST | 02022011 | 11 | 267 | 701 WO | Work Order Comment | 2 TIBBETTS PLUMBING / STATE HWY PATROL SUB STATION |
| 11-267-107 | 11-701 | 4001 HWY 11 / 80 EAST | 02022011 | 11 | 267 | 701 WO | Work Order Comment | 3 LOCATE #11020115010517 |
| 11-267-107 | 11-701 | 4001 HWY 11 / 80 EAST | 02022011 | 11 | 267 | 701 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5108 |
| 11-267-107 | 11-701 | 4001 HWY 11 / 80 EAST | 02022011 | 11 | 267 | 701 WP | Completed Comments | 3 TAP INTO LIFT STATION |
| 11-267-108 | 11-708 | 5TH STREET / 49TH AVENUE | 02032011 | 11 | 267 | 708 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-109 | 11-718 | 239 58TH AVENUE | 02032011 | 11 | 267 | 109 WO | Work Order Comment | 1 SEWER CAVE IN |
| 11-267-109 | 11-718 | 239 58TH AVENUE | 02032011 | 11 | 267 | 109 WO | Work Order Comment | 3 LOCATE #10102614160756 |
| 11-267-109 | 11-718 | 239 58TH AVENUE | 02032011 | 11 | 267 | 109 WP | Completed Comments | 3 PROBLEM WAN ON STREET DIVISION - TURNED OVER TO THEM |
| 11-267-109 | 11-718 | 239 58TH AVENUE | 02032011 | 11 | 267 | 718 WO | Work Order Comment | 1 CAVE IN? |
| 11-267-109 | 11-718 | 239 58TH AVENUE | 02032011 | 11 | 267 | 110 WO | Work Order Comment | 1 SEWER CAVE IN |
| 11-267-110 | 11-719 | 4024 31ST AVENUE | 02032011 | 11 | 267 | 110 WO | Work Order Comment | 3 LOCATE #10102616421076 |
| 11-267-110 | 11-719 | 4024 31ST AVENUE | 02032011 | 11 | 267 | 719 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-110 | 11-719 | 4024 31ST AVENUE | 02032011 | 11 | 267 | 719 WO | Work Order Comment | 3 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-110 | 11-719 | 4024 31ST AVENUE | 02032011 | 11 | 267 | 719 WP | Completed Comments | 2 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-110 | 11-719 | 4024 31ST AVENUE | 02032011 | 11 | 267 | 111 WO | Work Order Comment | 1 REPAIR SEWER LEAK |
| 11-267-111 | 11-720 | 45TH AVENUE / 5TH STREET | 02032011 | 11 | 267 | 111 WO | Work Order Comment | 3 LOCATE #10102708110083 |
| 11-267-111 | 11-720 | 45TH AVENUE / 5TH STREET | 02032011 | 11 | 267 | 111 WP | Completed Comments | 2 9 FEET OF 6 INCH SEWER PIPE AND 2 EACH 6 INCH HY-MAX |
| 11-267-111 | 11-720 | 45TH AVENUE / 5TH STREET | 02032011 | 11 | 267 | 720 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-112 | 11-752 | HAMPTON INN | 02072011 | 11 | 267 | 752 WO | Work Order Comment | 1 MANHOLE OF |
| 11-267-113 | 11-753 | 2001 HWY 39 NORTH | 02072011 | 11 | 267 | 753 WO | Work Order Comment | 1 MANHOLE OF |
| 11-267-114 | 11-781 | 55TH STREET / O AVENUE | 02102011 | 11 | 267 | 781 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-115 | 11-782 | 4515 C PLACE | 02102011 | 11 | 267 | 115 WO | Work Order Comment | 1 CAVE-IN ON SEWER |
| 11-267-115 | 11-782 | 4515 C PLACE | 02102011 | 11 | 267 | 115 WO | Work Order Comment | 3 LOCATE #10102716050825 |
| 11-267-115 | 11-782 | 4515 C PLACE | 02102011 | 11 | 267 | 782 WO | Work Order Comment | 1 SEWER SMELL AT NIGHT |
| 11-267-116 | 11-783 | CRACKER BARRELL DITCH | 02102011 | 11 | 267 | 783 WO | Work Order Comment | 1 MANHOLE OF |
| 11-267-117 | 11-784 | JOHN HARRIS PARK | 02102011 | 11 | 267 | 784 WO | Work Order Comment | 2 REPAIR MANHOLE |
| 11-267-118 | 11-791 | CRACKER BARREL | 02112011 | 11 | 267 | 791 WO | Work Order Comment | 1 MH O/F |
| 11-267-119 | 11-796 | 32ND STREET / 65TH AVENUE | 02112011 | 11 | 267 | 796 WO | Work Order Comment | 1 RETREIVE FLUSH TRUCK HOSE |
| 11-267-120 | 11-800 | 902 26TH AVENUE | 02112011 | 11 | 267 | 800 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-120 | 11-800 | 902 26TH AVENUE | 02112011 | 11 | 267 | 800 WO | Work Order Comment | 3 ***** ON CUSTOMER ***** |
| 11-267-120 | 11-800 | 902 26TH AVENUE | 02112011 | 11 | 267 | 800 WP | Completed Comments | 3 ***** ON CUSTOMER ***** |
| 11-267-121 | 11-801 | AZALEA DRIVE / CRESCENT CITY GRILL | 02112011 | 11 | 267 | 801 WO | Work Order Comment | 1 MANHOLE O/F |
| 11-267-121 | 11-801 | AZALEA DRIVE / CRESCENT CITY GRILL | 02112011 | 11 | 267 | 801 WP | Completed Comments | 2 HAD TO WALK THE LINE TO FIND PROBLEM AND CORRECT IT |
| 11-267-122 | 11-802 | 5029 SHUMATE ROAD | 02112011 | 11 | 267 | 802 WO | Work Order Comment | 1 SEWER SMELL |
| 11-267-123 | 11-803 | Q V SYKES PARK | 02112011 | 11 | 267 | 803 WO | Work Order Comment | 1 ASSIST 144 |
| 11-267-123 | 11-803 | Q V SYKES PARK | 02112011 | 11 | 267 | 803 WP | Completed Comments | 3 ASSISTED STREET DIVISION |
| 11-267-124 | 11-807 | NAS SUBMETER | 02112011 | 11 | 267 | 807 WO | Work Order Comment | 1 CHECK SUBMETER FOR CORRECT READ CALIBRATIONS |
| 11-267-125 | 11-808 | 2018 24TH AVENUE | 02112011 | 11 | 267 | 808 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-126 | 11-809 | 2018 24TH AVENUE | 02112011 | 11 | 267 | 809 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-126 | 11-809 | 2018 24TH AVENUE | 02112011 | 11 | 267 | 809 WP | Completed Comments | 3 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-126 | 11-809 | 2018 24TH AVENUE | 02112011 | 11 | 267 | 809 WP | Completed Comments | 2 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-127 | 11-810 | 1930 26TH AVENUE | 02112011 | 11 | 267 | 810 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-127 | 11-810 | 1930 26TH AVENUE | 02112011 | 11 | 267 | 810 WO | Work Order Comment | 3 ***** PROBLEM ON CUSTOMER ***** |
| 11-267-127 | 11-810 | 1930 26TH AVENUE | 02112011 | 11 | 267 | 810 WP | Completed Comments | 3 *****PROBLEM ON CUSTOMER***** |
| 11-267-127 | 11-810 | 1930 26TH AVENUE | 02112011 | 11 | 267 | 810 WP | Completed Comments | 1 REPAIR CAVE-IN |
| 11-267-128 | 11-843 | 2002 18TH STREET | 02172011 | 11 | 267 | 843 WO | Work Order Comment | 3 LOCATE #11021714030686 |
| 11-267-128 | 11-843 | 2002 18TH STREET | 02172011 | 11 | 267 | 843 WO | Work Order Comment | 2 ***** NO CAVE-IN FOUND ***** |
| 11-267-128 | 11-843 | 2002 18TH STREET | 02172011 | 11 | 267 | 843 WP | Completed Comments | 1 REPAIR SEWER CAVE-IN |
| 11-267-129 | 11-845 | 47TH AVE / ST BLVD | 02182011 | 11 | 267 | 845 WO | Work Order Comment | 3 LOCATE #11021809110168 |
| 11-267-129 | 11-845 | 47TH AVE / ST BLVD | 02182011 | 11 | 267 | 845 WO | Work Order Comment | 1 SEWER CAVE IN |
| 11-267-130 | 11-877 | 60TH AVENUE / 1ST STREET | 02282011 | 11 | 267 | 877 WO | Work Order Comment | 3 LOCATE #11022414220602 |
| 11-267-130 | 11-877 | 60TH AVENUE / 1ST STREET | 02282011 | 11 | 267 | 877 WO | Work Order Comment | 4 ***** WAS ON STORM DRAIN - STREET DIVISION ***** |
| 11-267-130 | 11-877 | 60TH AVENUE / 1ST STREET | 02282011 | 11 | 267 | 877 WP | Completed Comments | 2 ***** WAS ON STORM DRAIN - STREET DIVISION ***** |
| 11-267-130 | 11-877 | 60TH AVENUE / 1ST STREET | 02282011 | 11 | 267 | 877 WP | Completed Comments | 1 REPAIR SEWER |
| 11-267-131 | 11-881 | 4509 8TH AVENUE | 02282011 | 11 | 267 | 881 WO | Work Order Comment | 3 EMERGENCY LOCATE 11022810130383 |
| 11-267-131 | 11-881 | 4509 8TH AVENUE | 02282011 | 11 | 267 | 881 WO | Work Order Comment | |

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| 11-267-132 | 11-884 | 203 49TH AVENUE (COOP) | 02282011 | 11 | 267 | 884 WO | Work Order Comment | 1 SEWER TAP -- 4 INCH TAP |
| 11-267-132 | 11-884 | 203 49TH AVENUE (COOP) | 02282011 | 11 | 267 | 884 WO | Work Order Comment | 2 BARBER AND SONS PLUMBING / LAUDERDALE COUNTY CO-OP |
| 11-267-132 | 11-884 | 203 49TH AVENUE (COOP) | 02282011 | 11 | 267 | 884 WO | Work Order Comment | 3 LOCATE #11022310480411 |
| 11-267-132 | 11-884 | 203 49TH AVENUE (COOP) | 02282011 | 11 | 267 | 884 WO | Work Order Comment | 4 SEWER LATERAL TAP ORDER #5109 |
| 11-267-133 | 11-906 | 1108 26TH AVENUE / APT C | 03042011 | 11 | 267 | 906 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-133 | 11-906 | 1108 26TH AVENUE / APT C | 03042011 | 11 | 267 | 906 WO | Work Order Comment | 3 EMERGENCY LOCATE #11022414310616 |
| 11-267-134 | 11-994 | 402 22ND AVENUE SOUTH | 03102011 | 11 | 267 | 994 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-134 | 11-994 | 402 22ND AVENUE SOUTH | 03102011 | 11 | 267 | 994 WO | Work Order Comment | 3 ***** EXCESSIVE RAIN ***** |
| 11-267-135 | 11-995 | 5TH STREET / 45TH AVENUE | 03102011 | 11 | 267 | 995 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-136 | 11-996 | 70TH PLACE LIFT STATION | 03102011 | 11 | 267 | 996 WO | Work Order Comment | 1 LIGHT FLASHING |
| 11-267-137 | 11-997 | CHANDLER ROAD LIFT STATION | 03102011 | 11 | 267 | 997 WO | Work Order Comment | 1 HIGH WATER ALARM |
| 11-267-137 | 11-997 | CHANDLER ROAD LIFT STATION | 03102011 | 11 | 267 | 997 WO | Work Order Comment | 2 INSTALLED 2 NEW PUMPS |
| 11-267-138 | 11-998 | 609 65TH AVENUE | 03102011 | 11 | 267 | 998 WO | Work Order Comment | 1 SEWER PROBLEM |
| 11-267-139 | 11-999 | 530 46TH AVENUE | 03102011 | 11 | 267 | 999 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-284 | 12-1000 | 2031 26TH AVENUE | 02242012 | 12 | 267 | 1000 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-284 | 12-1000 | 2031 26TH AVENUE | 02242012 | 12 | 267 | 1000 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-285 | 12-1001 | 63RD AVENUE / 7TH COURT | 02242012 | 12 | 267 | 285 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-285 | 12-1001 | 63RD AVENUE / 7TH COURT | 02242012 | 12 | 267 | 285 WO | Work Order Comment | 1 LOCATE MANHOLE |
| 12-267-285 | 12-1001 | 63RD AVENUE / 7TH COURT | 02242012 | 12 | 267 | 1001 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-285 | 12-1001 | 63RD AVENUE / 7TH COURT | 02242012 | 12 | 267 | 1001 WO | Work Order Comment | 1 PUT OUT REDHOT IN LINE |
| 12-267-286 | 12-1002 | HWY 80 & 11-SUPER 8 / BUFFALO WINGS | 02242012 | 12 | 267 | 1002 WO | Work Order Comment | 1 SEWAGE IN DITCH |
| 12-267-286 | 12-1002 | HWY 80 & 11-SUPER 8 / BUFFALO WINGS | 02242012 | 12 | 267 | 1002 WO | Work Order Comment | 1 CLEAN UP AND LIME THE DITCH FROM OVER FLOW SEWER FROM OUR |
| 12-267-286 | 12-1002 | HWY 80 & 11-SUPER 8 / BUFFALO WINGS | 02242012 | 12 | 267 | 1002 WO | Work Order Comment | 2 LINE |
| 12-267-287 | 12-1003 | 4320 36TH AVENUE | 02242012 | 12 | 267 | 1003 WO | Work Order Comment | 1 SEWAGE PROBLEM |
| 12-267-287 | 12-1003 | 4320 36TH AVENUE | 02242012 | 12 | 267 | 1003 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-288 | 12-1005 | 2712 43RD AVENUE | 02242012 | 12 | 267 | 1005 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-288 | 12-1005 | 2712 43RD AVENUE | 02242012 | 12 | 267 | 1005 WO | Work Order Comment | 1 ON CUSTOMER FLUSH OUR LINE |
| 12-267-289 | 12-1006 | 2107 22ND AVENUE | 02242012 | 12 | 267 | 1006 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-289 | 12-1006 | 2107 22ND AVENUE | 02242012 | 12 | 267 | 1006 WO | Work Order Comment | 1 ON THE CUSTOMER FLUSH OUR LINE |
| 12-267-290 | 12-1008 | A STREET / 8TH AVENUE | 02242012 | 12 | 267 | 1008 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-290 | 12-1008 | A STREET / 8TH AVENUE | 02242012 | 12 | 267 | 1008 WO | Work Order Comment | 1 TWO 15' CPOUPLING AMD 57 FT X 3 INCH OF PIPE |
| 12-267-291 | 12-1011 | 2635 23RD AVENUE | 02242012 | 12 | 267 | 1011 WO | Work Order Comment | 1 FLUSH MANHOLE (ON CUSTOMER) |
| 12-267-291 | 12-1011 | 2635 23RD AVENUE | 02242012 | 12 | 267 | 1011 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-292 | 12-1012 | 4918 21ST STREET | 02242012 | 12 | 267 | 1012 WO | Work Order Comment | 1 ROOTS IN MANHOLE |
| 12-267-293 | 12-1022 | 4301 HICKORY HILLS CIRCLE | 02272012 | 12 | 267 | 293 WO | Work Order Comment | 1 MANHOLE COVER IS OFF |
| 12-267-293 | 12-1022 | 4301 HICKORY HILLS CIRCLE | 02272012 | 12 | 267 | 1022 WO | Work Order Comment | 1 MANHOLE OVERFLOWING (ON US) |
| 12-267-293 | 12-1022 | 4301 HICKORY HILLS CIRCLE | 02272012 | 12 | 267 | 1022 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-294 | 12-1023 | 4949 37TH STREET | 02272012 | 12 | 267 | 1023 WO | Work Order Comment | 1 FLUSH LINE (ON US) |
| 12-267-294 | 12-1023 | 4949 37TH STREET | 02272012 | 12 | 267 | 1023 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-295 | 12-1024 | 2724 20TH STREET | 02272012 | 12 | 267 | 295 WO | Work Order Comment | 1 LOOSE MANHOLE COVER |
| 12-267-295 | 12-1024 | 2724 20TH STREET | 02272012 | 12 | 267 | 295 WO | Work Order Comment | 1 1-RING 1-LID |
| 12-267-295 | 12-1024 | 2724 20TH STREET | 02272012 | 12 | 267 | 1024 WO | Work Order Comment | 1 MANHOLE OVERFLOWING (ON CUSTOMER) |
| 12-267-296 | 12-1025 | 4208 HICKORY HILLS CIRCLE | 02272012 | 12 | 267 | 296 WO | Work Order Comment | 1 ON CUSTOMER |
| 12-267-296 | 12-1025 | 4208 HICKORY HILLS CIRCLE | 02272012 | 12 | 267 | 296 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-296 | 12-1025 | 4208 HICKORY HILLS CIRCLE | 02272012 | 12 | 267 | 1025 WO | Work Order Comment | 1 ROD OUT SEWER LINE |
| 12-267-297 | 12-1035 | 4001 20TH STREET | 02282012 | 12 | 267 | 297 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-297 | 12-1035 | 4001 20TH STREET | 02282012 | 12 | 267 | 1035 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-298 | 12-1042 | 910 42ND AVENUE | 02282012 | 12 | 267 | 1042 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-298 | 12-1042 | 910 42ND AVENUE | 02282012 | 12 | 267 | 1042 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-298 | 12-1042 | 910 42ND AVENUE | 02282012 | 12 | 267 | 1042 WO | Work Order Comment | 2 LOCATE #12022310320359 |
| 12-267-299 | 12-1047 | 2135 12TH AVENUE | 02282012 | 12 | 267 | 1047 WO | Work Order Comment | 1 REPAIR 8" SEWER LINE |
| 12-267-299 | 12-1047 | 2135 12TH AVENUE | 02282012 | 12 | 267 | 1047 WO | Work Order Comment | 1 RAW SEWAGE IN STREET (ACROSS FROM ABOVE ADDRESS) |
| 12-267-300 | 12-1049 | 817 42ND AVENUE | 02282012 | 12 | 267 | 1049 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-300 | 12-1049 | 817 42ND AVENUE | 02282012 | 12 | 267 | 1049 WO | Work Order Comment | 1 SEWER STOPPED UP BEHIND FRANKBERRY COURTS |
| 12-267-301 | 12-1050 | 803 26TH STREET | 02282012 | 12 | 267 | 1050 WO | Work Order Comment | 1 FLUSH OUR LINE RUNNING AND GOOD |
| 12-267-302 | 12-1053 | 1813 35TH AVENUE | 02292012 | 12 | 267 | 1053 WO | Work Order Comment | 1 SEWER BACKUP |
| 12-267-302 | 12-1053 | 1813 35TH AVENUE | 02292012 | 12 | 267 | 1053 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 12-267-303 | 12-1063 | GRAND AVENUE / PENN LANE | 03012012 | 12 | 267 | 1063 WO | Work Order Comment | 1 78 FT OF PVC PIPE AND TWO 4-INCH COUPLING |
| | | | | | | | | 1 MANHOLE COVER NEEDS ATTENTION |

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| 12-267-303 | 12-1063 | GRAND AVENUE / PENN LANE | 03012012 | 12 | 267 | 1063 WP | Completed Comments | 1 1-MANHOLE LID |
| 12-267-304 | 12-1066 | 14TH AVENUE / 63RD STREET | 03012012 | 12 | 267 | 1066 WO | Work Order Comment | 1 STORM DRAIN (ASSIST STREET DIVISION) |
| 12-267-304 | 12-1066 | 14TH AVENUE / 63RD STREET | 03012012 | 12 | 267 | 1066 WP | Completed Comments | 1 ASSIST THE STREET DEPT |
| 12-267-305 | 12-1067 | OLD 80 W NEAR LIFT STATION | 03012012 | 12 | 267 | 1067 WO | Work Order Comment | 1 CASTING KNOCKED OFF MANHOLE |
| 12-267-305 | 12-1067 | OLD 80 W NEAR LIFT STATION | 03012012 | 12 | 267 | 1067 WP | Completed Comments | 1 FLUSH LINE AND UNSTOPPED THE LINE |
| 12-267-306 | 12-1070 | B STREET NEAR J J'S | 03012012 | 12 | 267 | 306 WO | Work Order Comment | 1 CAVE IN |
| 12-267-306 | 12-1070 | B STREET NEAR J J'S | 03012012 | 12 | 267 | 306 WP | Completed Comments | 1 2" WATER LEAKING USE SAME 2" COPPER TO REPLACE 2" LINE |
| 12-267-306 | 12-1070 | B STREET NEAR J J'S | 03012012 | 12 | 267 | 1070 WO | Work Order Comment | 1 STORM DRAIN (ASSIST STREET DIVISION) |
| 12-267-306 | 12-1070 | B STREET NEAR J J'S | 03012012 | 12 | 267 | 1070 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-307 | 12-1071 | 6400 OLD 8TH STREET ROAD | 03012012 | 12 | 267 | 1071 WO | Work Order Comment | 1 FLUSH MANHOLE |
| 12-267-307 | 12-1071 | 6400 OLD 8TH STREET ROAD | 03012012 | 12 | 267 | 1071 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-308 | 12-1072 | 1723 16TH STREET | 03012012 | 12 | 267 | 1072 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-308 | 12-1072 | 1723 16TH STREET | 03012012 | 12 | 267 | 1072 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-309 | 12-1073 | WWTP | 03012012 | 12 | 267 | 1073 WO | Work Order Comment | 1 PIPE STOPPED UP |
| 12-267-309 | 12-1073 | WWTP | 03012012 | 12 | 267 | 1073 WP | Completed Comments | 1 FLUSH LINE AND UNSTOPPED THE LINE |
| 12-267-310 | 12-1075 | 907 29TH AVENUE | 03012012 | 12 | 267 | 1075 WO | Work Order Comment | 1 SEWAGE BACKING UP |
| 12-267-310 | 12-1075 | 907 29TH AVENUE | 03012012 | 12 | 267 | 1075 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-311 | 12-1076 | GRAND AVENUE / PENN LANE | 03022012 | 12 | 267 | 1076 WO | Work Order Comment | 1 MANHOLE COVER NEEDS ATTENTION |
| 12-267-311 | 12-1076 | GRAND AVENUE / PENN LANE | 03022012 | 12 | 267 | 1076 WP | Completed Comments | 1 VOID |
| 12-267-312 | 12-1104 | 16TH STREET / 17TH AVENUE | 03062012 | 12 | 267 | 1104 WO | Work Order Comment | 1 RING NEEDS RESITTING AND SEALED - LOCATED IN DITCH |
| 12-267-312 | 12-1104 | 16TH STREET / 17TH AVENUE | 03062012 | 12 | 267 | 1104 WO | Work Order Comment | 2 (REPAIR MANHOLE) |
| 12-267-312 | 12-1104 | 16TH STREET / 17TH AVENUE | 03062012 | 12 | 267 | 1104 WP | Completed Comments | 1 REPAIR MANHOLE |
| 12-267-313 | 12-1106 | 2603 EDGEWOOD DRIVE | 03062012 | 12 | 267 | 1106 WO | Work Order Comment | 1 WATER BACKING UP IN TUB |
| 12-267-313 | 12-1106 | 2603 EDGEWOOD DRIVE | 03062012 | 12 | 267 | 1106 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-314 | 12-1108 | HWY 11 / 80 BY JJ'S | 03062012 | 12 | 267 | 1108 WO | Work Order Comment | 1 STORM DRAIN |
| 12-267-314 | 12-1108 | HWY 11 / 80 BY JJ'S | 03062012 | 12 | 267 | 1108 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-315 | 12-1109 | 4809 NEWELL ROAD | 03062012 | 12 | 267 | 1109 WO | Work Order Comment | 1 SEWAGE BACKING UP IN YARD (ON CUSTOMER) |
| 12-267-315 | 12-1109 | 4809 NEWELL ROAD | 03062012 | 12 | 267 | 1109 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-316 | 12-1110 | 5612 ARTHUR STREET | 03062012 | 12 | 267 | 1110 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-316 | 12-1110 | 5612 ARTHUR STREET | 03062012 | 12 | 267 | 1110 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-317 | 12-1111 | 4332 33RD AVENUE | 03062012 | 12 | 267 | 1111 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-317 | 12-1111 | 4332 33RD AVENUE | 03062012 | 12 | 267 | 1111 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-318 | 12-1112 | 105 24TH STREET | 03062012 | 12 | 267 | 318 WO | Work Order Comment | 1 SEWAGE ODOR ON WEST SIDE OF FIELD |
| 12-267-318 | 12-1112 | 105 24TH STREET | 03062012 | 12 | 267 | 318 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-318 | 12-1112 | 105 24TH STREET | 03062012 | 12 | 267 | 1112 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-318 | 12-1112 | 105 24TH STREET | 03062012 | 12 | 267 | 1112 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-319 | 12-1113 | 5114 ARTHUR STREET | 03062012 | 12 | 267 | 319 WO | Work Order Comment | 1 TOILET BACKS UP AND OVERFLOWS |
| 12-267-319 | 12-1113 | 5114 ARTHUR STREET | 03062012 | 12 | 267 | 319 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-319 | 12-1113 | 5114 ARTHUR STREET | 03062012 | 12 | 267 | 1113 WO | Work Order Comment | 1 SEWAGE IN BASEMENT |
| 12-267-319 | 12-1113 | 5114 ARTHUR STREET | 03062012 | 12 | 267 | 1113 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-320 | 12-1114 | 4555 35TH AVENUE | 03062012 | 12 | 267 | 320 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-320 | 12-1114 | 4555 35TH AVENUE | 03062012 | 12 | 267 | 320 WP | Completed Comments | 1 ON THE CITY |
| 12-267-320 | 12-1114 | 4555 35TH AVENUE | 03062012 | 12 | 267 | 1114 WO | Work Order Comment | 1 BROKEN DOWN SEWER LINE BEHIND THE BUILDING (ON CUSTOMER) |
| 12-267-320 | 12-1114 | 4555 35TH AVENUE | 03062012 | 12 | 267 | 1114 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-320 | 12-1114 | 4555 35TH AVENUE | 03062012 | 12 | 267 | 1116 WO | Work Order Comment | 1 FLUSH MANHOLE AT ENTRANCE TO COLONIAL APTS. |
| 12-267-321 | 12-1116 | 40TH AVENUE / 40TH STREET | 03062012 | 12 | 267 | 1116 WP | Completed Comments | 1 ON THE CITY |
| 12-267-321 | 12-1116 | 40TH AVENUE / 40TH STREET | 03072012 | 12 | 267 | 1124 WO | Work Order Comment | 1 INSTALL SEWER LINE |
| 12-267-322 | 12-1124 | CHIP MILL | 03072012 | 12 | 267 | 1124 WP | Completed Comments | 1 VOID |
| 12-267-322 | 12-1124 | CHIP MILL | 03072012 | 12 | 267 | 1126 WO | Work Order Comment | 1 MANHOLE CASTING AND LID MISSING |
| 12-267-323 | 12-1126 | TOMMY WEBB DRIVE BY PILOT | 03072012 | 12 | 267 | 1129 WO | Work Order Comment | 1 MISSING MANHOLE LIDS |
| 12-267-324 | 12-1129 | HWY 39 BYPASS | 03072012 | 12 | 267 | 1132 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-325 | 12-1132 | 2003 26TH AVENUE | 03072012 | 12 | 267 | 1132 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-325 | 12-1132 | 2003 26TH AVENUE | 03072012 | 12 | 267 | 1133 WO | Work Order Comment | 1 CHECK MANHOLE |
| 12-267-326 | 12-1133 | 5723 VALLY STREET | 03072012 | 12 | 267 | 1133 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-326 | 12-1133 | 5723 VALLY STREET | 03072012 | 12 | 267 | 327 WO | Work Order Comment | 1 SEWAGE ODOR ON WEST SIDE OF FIELD |
| 12-267-327 | 12-1134 | GRAND AVENUE / ANDERSON ROAD | 03072012 | 12 | 267 | 327 WP | Completed Comments | 1 ON THE CITY |
| 12-267-327 | 12-1134 | GRAND AVENUE / ANDERSON ROAD | 03072012 | 12 | 267 | 1134 WO | Work Order Comment | 1 FLUSH LINE AND WASH AWAY MUD |
| 12-267-327 | 12-1134 | GRAND AVENUE / ANDERSON ROAD | 03072012 | 12 | 267 | 1134 WP | Completed Comments | 1 CLEAN OUT STORM DRAIN |
| 12-267-328 | 12-1135 | 2436 HIGHLAND AVENUE | 03072012 | 12 | 267 | 328 WO | Work Order Comment | 1 TOILET BACKS UP AND OVERFLOWS |

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| 12-267-328 | 12-1135 | 2436 HIGHLAND AVENUE | 03072012 | 12 | 267 | 328 WP | Completed Comments | 1 ON THE CITY |
| 12-267-328 | 12-1135 | 2436 HIGHLAND AVENUE | 03072012 | 12 | 267 | 1135 WO | Work Order Comment | 1 SEWAGE BACKING UP IN TUB |
| 12-267-328 | 12-1135 | 2436 HIGHLAND AVENUE | 03072012 | 12 | 267 | 1135 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-329 | 12-1136 | 36TH AVENUE / 32ND STREET | 03072012 | 12 | 267 | 329 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-329 | 12-1136 | 36TH AVENUE / 32ND STREET | 03072012 | 12 | 267 | 329 WP | Completed Comments | 1 ON THE CITY |
| 12-267-329 | 12-1136 | 36TH AVENUE / 32ND STREET | 03072012 | 12 | 267 | 1136 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-329 | 12-1136 | 36TH AVENUE / 32ND STREET | 03072012 | 12 | 267 | 1136 WP | Completed Comments | 1 SMOKE SEWER |
| 12-267-330 | 12-1139 | 2615 20TH STREET | 03072012 | 12 | 267 | 1139 WO | Work Order Comment | 1 MANHOLE COVER IS LOOSE |
| 12-267-331 | 12-1157 | 4203 33RD AVENUE | 03082012 | 12 | 267 | 331 WO | Work Order Comment | 1 CHIP MILL |
| 12-267-331 | 12-1157 | 4203 33RD AVENUE | 03082012 | 12 | 267 | 1157 WO | Work Order Comment | 1 TWO MANHOLE OVERFLOWING (ON US) |
| 12-267-331 | 12-1157 | 4203 33RD AVENUE | 03082012 | 12 | 267 | 1157 WP | Completed Comments | 1 ON THE CITY - FLUSH LINE GOOD |
| 12-267-332 | 12-1158 | 40TH STREET / 33RD AVENUE | 03082012 | 12 | 267 | 332 WO | Work Order Comment | 1 SEWER SMELL |
| 12-267-332 | 12-1158 | 40TH STREET / 33RD AVENUE | 03082012 | 12 | 267 | 332 WP | Completed Comments | 1 ON THE CITY |
| 12-267-332 | 12-1158 | 40TH STREET / 33RD AVENUE | 03082012 | 12 | 267 | 1158 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-332 | 12-1158 | 40TH STREET / 33RD AVENUE | 03082012 | 12 | 267 | 1158 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-333 | 12-1160 | 4509 B PLACE | 03082012 | 12 | 267 | 1160 WO | Work Order Comment | 1 SEWER ODOR (NOTHING FOUND) |
| 12-267-334 | 12-1161 | 1723 16TH STREET | 03082012 | 12 | 267 | 1161 WO | Work Order Comment | 1 SEWER PROBLEM (ON THEM) |
| 12-267-334 | 12-1161 | 1723 16TH STREET | 03082012 | 12 | 267 | 1161 WP | Completed Comments | 1 ON CUSTOMER |
| 12-267-335 | 12-1162 | 2614 19TH STREET | 03082012 | 12 | 267 | 1162 WO | Work Order Comment | 1 RAW SEWAGE GOING INTO DITCH |
| 12-267-335 | 12-1162 | 2614 19TH STREET | 03082012 | 12 | 267 | 1162 WP | Completed Comments | 1 UNSTOP LINE FLUSHED OUT |
| 12-267-336 | 12-1165 | BONITA BYPASS | 03082012 | 12 | 267 | 1165 WO | Work Order Comment | 1 HIT MANHOLE AND DIRT IN MANHOLE |
| 12-267-336 | 12-1165 | BONITA BYPASS | 03082012 | 12 | 267 | 1165 WP | Completed Comments | 1 PUT CAP ON IT |
| 12-267-337 | 12-1169 | 3200 OLD HWY 45 N | 03092012 | 12 | 267 | 1169 WO | Work Order Comment | 1 SEWER TAP - 4 INCH |
| 12-267-337 | 12-1169 | 3200 OLD HWY 45 N | 03092012 | 12 | 267 | 1169 WO | Work Order Comment | 2 LOCATE #12030714470857 |
| 12-267-337 | 12-1169 | 3200 OLD HWY 45 N | 03092012 | 12 | 267 | 1169 WO | Work Order Comment | 3 NAME: MITCHELL SIGNS / CONTRACTOR: BARBER & SONS |
| 12-267-337 | 12-1169 | 3200 OLD HWY 45 N | 03092012 | 12 | 267 | 1169 WO | Work Order Comment | 4 SEWER TAP ORDER 5129 |
| 12-267-337 | 12-1169 | 3200 OLD HWY 45 N | 03092012 | 12 | 267 | 1169 WP | Completed Comments | 1 1-6" SEWER TAPPING SADDLE |
| 12-267-338 | 12-1174 | 1126 47TH AVENUE | 03122012 | 12 | 267 | 1174 WO | Work Order Comment | 1 MANHOLE IN YARD BACKING UP AND SMELLS (ON CUSTOMER) |
| 12-267-338 | 12-1174 | 1126 47TH AVENUE | 03122012 | 12 | 267 | 1174 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-339 | 12-1175 | 1010 MARTIN LUTHER KING DRIVE | 03122012 | 12 | 267 | 1175 WO | Work Order Comment | 1 FLUSH LINE (ON CUSTOMER) |
| 12-267-339 | 12-1175 | 1010 MARTIN LUTHER KING DRIVE | 03122012 | 12 | 267 | 1175 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-340 | 12-1183 | ST JOHN BAPTIST CHURCH | 03132012 | 12 | 267 | 1183 WO | Work Order Comment | 1 FLUSH STORM DRAIN |
| 12-267-341 | 12-1192 | 12TH AVENUE / 18TH STREET | 03142012 | 12 | 267 | 1192 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-341 | 12-1192 | 12TH AVENUE / 18TH STREET | 03142012 | 12 | 267 | 1192 WO | Work Order Comment | 2 LOCATE #12030113360591 |
| 12-267-341 | 12-1192 | 12TH AVENUE / 18TH STREET | 03142012 | 12 | 267 | 1192 WP | Completed Comments | 1 USE PIECE OF 8" PIPE, 2-COUPPLING PVC TO CLAY 8" |
| 12-267-342 | 12-1219 | 2920 10TH AVENUE | 03152012 | 12 | 267 | 1219 WO | Work Order Comment | 1 SEWAGE BACKING UP (ON CUSTOMER) |
| 12-267-342 | 12-1219 | 2920 10TH AVENUE | 03152012 | 12 | 267 | 1219 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-343 | 12-1225 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03162012 | 12 | 267 | 343 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-343 | 12-1225 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03162012 | 12 | 267 | 343 WP | Completed Comments | 1 ON THE CITY |
| 12-267-343 | 12-1225 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03162012 | 12 | 267 | 1225 WO | Work Order Comment | 1 SEWER MAIN REPAIR |
| 12-267-343 | 12-1225 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03162012 | 12 | 267 | 1225 WP | Completed Comments | 1 MOVED A SEWER TAP 4" IN MANHOLE, USE 81" FT OF PVC PIPE |
| 12-267-343 | 12-1225 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03162012 | 12 | 267 | 1225 WP | Completed Comments | 2 AND TWO 4" INCH COUPLING, ONE BUCKET OF PLUG |
| 12-267-344 | 12-1227 | 5TH STREET / 37TH AVENUE | 03162012 | 12 | 267 | 344 WO | Work Order Comment | 1 WASHOUT IN FRONT OF SEWER LINE |
| 12-267-344 | 12-1227 | 5TH STREET / 37TH AVENUE | 03162012 | 12 | 267 | 344 WP | Completed Comments | 1 DID NOT FIND ANYTHING |
| 12-267-344 | 12-1227 | 5TH STREET / 37TH AVENUE | 03162012 | 12 | 267 | 1227 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-345 | 12-1228 | 5723 VALLY STREET | 03162012 | 12 | 267 | 1227 WP | Completed Comments | 1 LOCATED SEWER LINE MANHOLE |
| 12-267-345 | 12-1228 | 5723 VALLY STREET | 03162012 | 12 | 267 | 345 WO | Work Order Comment | 1 STRONG SEWER SMELL |
| 12-267-345 | 12-1228 | 5723 VALLY STREET | 03162012 | 12 | 267 | 1228 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-346 | 12-1229 | 36TH AVENUE / 2ND STREET | 03162012 | 12 | 267 | 1228 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-346 | 12-1229 | 36TH AVENUE / 2ND STREET | 03162012 | 12 | 267 | 1229 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-347 | 12-1230 | 4820 POPLAR SPRINGS DR-1ST FRANKLIN | 03162012 | 12 | 267 | 1229 WP | Completed Comments | 1 LOCATED SEWER LINE MAN HOLE |
| 12-267-347 | 12-1230 | 4820 POPLAR SPRINGS DR-1ST FRANKLIN | 03162012 | 12 | 267 | 1230 WO | Work Order Comment | 1 SEWER PROBLEM (ON CUSTOMER) |
| 12-267-348 | 12-1240 | 4502 PAULING STREET | 03192012 | 12 | 267 | 1230 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-348 | 12-1240 | 4502 PAULING STREET | 03192012 | 12 | 267 | 1240 WO | Work Order Comment | 1 FLUSH LINE (ON CUSTOMER) |
| 12-267-349 | 12-1241 | 19TH STREET / 10TH AVENUE | 03192012 | 12 | 267 | 1240 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-349 | 12-1241 | 19TH STREET / 10TH AVENUE | 03192012 | 12 | 267 | 1241 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-350 | 12-1242 | 1230 26TH STREET | 03192012 | 12 | 267 | 1241 WP | Completed Comments | 1 COULD NOT FIND ANYTHING |
| 12-267-350 | 12-1242 | 1230 26TH STREET | 03192012 | 12 | 267 | 1242 WO | Work Order Comment | 1 WATER BACKING UP IN TUB (ON CUSTOMER) |
| 12-267-350 | 12-1242 | 1230 26TH STREET | 03192012 | 12 | 267 | 1242 WP | Completed Comments | 1 ON THE CUSTOMER |

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| 12-267-351 | 12-1247 | 4024 31ST AVENUE | 03192012 | 12 | 267 | 1247 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-351 | 12-1247 | 4024 31ST AVENUE | 03192012 | 12 | 267 | 1247 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-352 | 12-1254 | 209 45TH COURT | 03202012 | 12 | 267 | 352 WO | Work Order Comment | 1 REPAIR SEWER |
| 12-267-352 | 12-1254 | 209 45TH COURT | 03202012 | 12 | 267 | 352 WP | Completed Comments | 1 REPAIR 24" SEWER LINE |
| 12-267-352 | 12-1254 | 209 45TH COURT | 03202012 | 12 | 267 | 1254 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-352 | 12-1254 | 209 45TH COURT | 03202012 | 12 | 267 | 1254 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-353 | 12-1257 | 4118 KINGS ROAD | 03202012 | 12 | 267 | 353 WO | Work Order Comment | 1 TOILET AND TUB BACK-UP |
| 12-267-353 | 12-1257 | 4118 KINGS ROAD | 03202012 | 12 | 267 | 353 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-353 | 12-1257 | 4118 KINGS ROAD | 03202012 | 12 | 267 | 1257 WO | Work Order Comment | 1 SEWER TAP - 4 INCH |
| 12-267-353 | 12-1257 | 4118 KINGS ROAD | 03202012 | 12 | 267 | 1257 WO | Work Order Comment | 2 LOCATE #12031510000275 |
| 12-267-353 | 12-1257 | 4118 KINGS ROAD | 03202012 | 12 | 267 | 1257 WO | Work Order Comment | 4 SEWER TAP ORDER #5131 |
| 12-267-354 | 12-1258 | 594 PIPPIN ROAD | 03202012 | 12 | 267 | 1258 WO | Work Order Comment | 1 SEWER TAP - 4 INCH |
| 12-267-354 | 12-1258 | 594 PIPPIN ROAD | 03202012 | 12 | 267 | 1258 WO | Work Order Comment | 2 LOCATE #12031509570270 |
| 12-267-354 | 12-1258 | 594 PIPPIN ROAD | 03202012 | 12 | 267 | 1258 WO | Work Order Comment | 3 NAME: MARY PIKE |
| 12-267-354 | 12-1258 | 594 PIPPIN ROAD | 03202012 | 12 | 267 | 1258 WO | Work Order Comment | 4 SEWER TAP ORDER #5130 |
| 12-267-354 | 12-1258 | 594 PIPPIN ROAD | 03202012 | 12 | 267 | 1258 WP | Completed Comments | 1 USE 1-SECTION OF 4' X 13 FT OF SEWER PIPE |
| 12-267-24 | 12-126 | 523 36TH AVENUE | 10192011 | 12 | 267 | 24 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-24 | 12-126 | 523 36TH AVENUE | 10192011 | 12 | 267 | 24 WP | Completed Comments | 1 VOID |
| 12-267-355 | 12-1265 | 4204 KINGS ROAD | 03212012 | 12 | 267 | 355 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-355 | 12-1265 | 4204 KINGS ROAD | 03212012 | 12 | 267 | 1265 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-355 | 12-1265 | 4204 KINGS ROAD | 03212012 | 12 | 267 | 1265 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-356 | 12-1266 | 2904 40TH AVENUE | 03212012 | 12 | 267 | 356 WO | Work Order Comment | 1 BROKEN SEWER LINE |
| 12-267-356 | 12-1266 | 2904 40TH AVENUE | 03212012 | 12 | 267 | 356 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-356 | 12-1266 | 2904 40TH AVENUE | 03212012 | 12 | 267 | 1266 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-356 | 12-1266 | 2904 40TH AVENUE | 03212012 | 12 | 267 | 1266 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-357 | 12-1271 | 3201 36TH AVENUE | 03212012 | 12 | 267 | 357 WO | Work Order Comment | 1 UNSTOP AND CLEAN OUT INLET |
| 12-267-357 | 12-1271 | 3201 36TH AVENUE | 03212012 | 12 | 267 | 357 WP | Completed Comments | 1 ON THE CITY |
| 12-267-357 | 12-1271 | 3201 36TH AVENUE | 03212012 | 12 | 267 | 1271 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-357 | 12-1271 | 3201 36TH AVENUE | 03212012 | 12 | 267 | 1271 WP | Completed Comments | 2 LOCATE #1226700357 |
| 12-267-357 | 12-1271 | 3201 36TH AVENUE | 03212012 | 12 | 267 | 1271 WO | Work Order Comment | 1 REPAIR 4" SEWER LINE |
| 12-267-358 | 12-1289 | 4517 STATE BLVD | 03232012 | 12 | 267 | 1289 WO | Work Order Comment | 1 CHECK MANHOLE |
| 12-267-358 | 12-1289 | 4517 STATE BLVD | 03232012 | 12 | 267 | 1289 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-359 | 12-1290 | WWTP ON HWY 11 | 03232012 | 12 | 267 | 1290 WP | Completed Comments | 1 VOID |
| 12-267-360 | 12-1300 | 906 48TH AVENUE | 03232012 | 12 | 267 | 1300 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-360 | 12-1300 | 906 48TH AVENUE | 03232012 | 12 | 267 | 1300 WO | Work Order Comment | 2 LOCATE #12022810220390 |
| 12-267-360 | 12-1300 | 906 48TH AVENUE | 03232012 | 12 | 267 | 1300 WP | Completed Comments | 1 REPAIR 8" SEWER LINE |
| 12-267-361 | 12-1304 | 813 42ND AVENUE | 03262012 | 12 | 267 | 1304 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-361 | 12-1304 | 813 42ND AVENUE | 03262012 | 12 | 267 | 1304 WO | Work Order Comment | 2 LOCATE #12022412320552 |
| 12-267-361 | 12-1304 | 813 42ND AVENUE | 03262012 | 12 | 267 | 1304 WP | Completed Comments | 1 SEWER LINE IS OKAY |
| 12-267-362 | 12-1305 | 1502 29TH AVENUE | 03262012 | 12 | 267 | 1305 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-362 | 12-1305 | 1502 29TH AVENUE | 03262012 | 12 | 267 | 1305 WO | Work Order Comment | 2 LOCATE #120227120005550 |
| 12-267-362 | 12-1305 | 1502 29TH AVENUE | 03262012 | 12 | 267 | 1305 WP | Completed Comments | 1 SEWER LINE IS OKAY |
| 12-267-363 | 12-1306 | 15TH STREET / 29TH AVENUE | 03262012 | 12 | 267 | 363 WO | Work Order Comment | 1 SEWER STOPPED UP |
| 12-267-363 | 12-1306 | 15TH STREET / 29TH AVENUE | 03262012 | 12 | 267 | 1306 WO | Work Order Comment | 1 MANHOLE LID STICKING UP |
| 12-267-363 | 12-1306 | 15TH STREET / 29TH AVENUE | 03262012 | 12 | 267 | 1306 WP | Completed Comments | 1 LINE OK |
| 12-267-364 | 12-1307 | 48TH AVENUE / 9TH STREET | 03262012 | 12 | 267 | 364 WO | Work Order Comment | 1 MANHOLE COVER IS OFF |
| 12-267-364 | 12-1307 | 48TH AVENUE / 9TH STREET | 03262012 | 12 | 267 | 1307 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-364 | 12-1307 | 48TH AVENUE / 9TH STREET | 03262012 | 12 | 267 | 1307 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 12-267-365 | 12-1308 | 701 31ST STREET | 03262012 | 12 | 267 | 1308 WO | Work Order Comment | 1 CLEAN STORM DRAIN FOR STREET DIVISION |
| 12-267-365 | 12-1308 | 701 31ST STREET | 03262012 | 12 | 267 | 1308 WP | Completed Comments | 1 CLEAN SEER DRAINS |
| 12-267-366 | 12-1309 | 2322 VALLEY ROAD (ATLAS ROOFING) | 03262012 | 12 | 267 | 366 WO | Work Order Comment | 1 REPAIR MANHOLE LIDE |
| 12-267-366 | 12-1309 | 2322 VALLEY ROAD (ATLAS ROOFING) | 03262012 | 12 | 267 | 366 WP | Completed Comments | 1 PUT CASKET BACK ON TOP OF MANHOLE |
| 12-267-367 | 12-1310 | 18TH AVENUE BY LOVE'S KITCHEN | 03262012 | 12 | 267 | 367 WO | Work Order Comment | 1 FLUSH SEWER LINE |
| 12-267-367 | 12-1310 | 18TH AVENUE BY LOVE'S KITCHEN | 03262012 | 12 | 267 | 367 WP | Completed Comments | 1 CHECK SEER BUT IT US OK |
| 12-267-368 | 12-1311 | 65TH AVENUE BY CITGO | 03262012 | 12 | 267 | 368 WO | Work Order Comment | 1 SEWER PROBLEM? |
| 12-267-369 | 12-1312 | 317 46TH AVENUE | 03262012 | 12 | 267 | 369 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-369 | 12-1312 | 317 46TH AVENUE | 03262012 | 12 | 267 | 369 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-370 | 12-1313 | OLD HWY 80 BY SUPER 8/BUFFALO WINGS | 03262012 | 12 | 267 | 370 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-370 | 12-1313 | OLD HWY 80 BY SUPER 8/BUFFALO WINGS | 03262012 | 12 | 267 | 370 WP | Completed Comments | 1 SEWER LINE WAS STOPPED UP |

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| 12-267-371 | 12-1314 | 5801 ARTHUR STREET | 03262012 | 12 | 267 | 371 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-25 | 12-132 | CITY HALL | 10202011 | 12 | 267 | 25 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-25 | 12-132 | CITY HALL | 10202011 | 12 | 267 | 25 WP | Completed Comments | 1 VOID |
| 12-267-372 | 12-1320 | 4118 27TH STREET | 03262012 | 12 | 267 | 372 WO | Work Order Comment | 1 SEWAGE BACKING UP FROM MANHOLE IN YARD |
| 12-267-372 | 12-1320 | 4118 27TH STREET | 03262012 | 12 | 267 | 372 WP | Completed Comments | 1 CLEAN OUT LINE AND UNSTOPPED IT |
| 12-267-373 | 12-1321 | 215 48TH AVENUE | 03262012 | 12 | 267 | 373 WO | Work Order Comment | 1 SEWER PROBLEM (ON THEM) |
| 12-267-373 | 12-1321 | 215 48TH AVENUE | 03262012 | 12 | 267 | 373 WP | Completed Comments | 1 ON THE CUSTOMER - SEWER PROBLEM |
| 12-267-374 | 12-1322 | 711 BONITA DRIVE | 03262012 | 12 | 267 | 374 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-374 | 12-1322 | 711 BONITA DRIVE | 03262012 | 12 | 267 | 374 WP | Completed Comments | 1 COULD NOT FIND ANYTHING |
| 12-267-375 | 12-1323 | 3509 45TH AVENUE | 03262012 | 12 | 267 | 375 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-375 | 12-1323 | 3509 45TH AVENUE | 03262012 | 12 | 267 | 375 WO | Work Order Comment | 2 LOCATE #120022714510790 |
| 12-267-375 | 12-1323 | 3509 45TH AVENUE | 03262012 | 12 | 267 | 375 WP | Completed Comments | 1 REPAIR SEWER MAIN |
| 12-267-376 | 12-1324 | 906 48TH AVENUE | 03262012 | 12 | 267 | 376 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-376 | 12-1324 | 906 48TH AVENUE | 03262012 | 12 | 267 | 376 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 12-267-377 | 12-1328 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03272012 | 12 | 267 | 377 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-377 | 12-1328 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03272012 | 12 | 267 | 377 WO | Work Order Comment | 2 LOCATE #12022807510073 |
| 12-267-377 | 12-1328 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03272012 | 12 | 267 | 377 WP | Completed Comments | 1 PUT TAP IN MANHOLE, USE 7' X 4' PIPE SEWER, 91 FT , 1-4' |
| 12-267-377 | 12-1328 | HIGHLAND PARK DRIVE / 40TH AVENUE | 03272012 | 12 | 267 | 377 WP | Completed Comments | 2 COUPLING AND BUCKET OF PLUGS |
| 12-267-378 | 12-1334 | E STREET / 25TH AVENUE | 03272012 | 12 | 267 | 378 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-378 | 12-1334 | E STREET / 25TH AVENUE | 03272012 | 12 | 267 | 378 WO | Work Order Comment | 2 LOCATE #12032015571006 |
| 12-267-378 | 12-1334 | E STREET / 25TH AVENUE | 03272012 | 12 | 267 | 378 WP | Completed Comments | 1 USE 8" PVC PIPE 6 FT 3" AND 3 BUCKETS OF PLUG AROUND |
| 12-267-379 | 12-1336 | 3509 45TH STREET | 03272012 | 12 | 267 | 378 WP | Completed Comments | 2 MANHOLE |
| 12-267-379 | 12-1336 | 3509 45TH STREET | 03272012 | 12 | 267 | 379 WO | Work Order Comment | 1 SEWER LINE (NOTHING FOUND) |
| 12-267-380 | 12-1337 | 4118 27TH STREET | 03272012 | 12 | 267 | 379 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-380 | 12-1337 | 4118 27TH STREET | 03272012 | 12 | 267 | 380 WO | Work Order Comment | 1 SEWAGE BACKING UP IN MANHOLE LOCATED IN YARD |
| 12-267-381 | 12-1352 | 2675 ST ANDREWS | 03282012 | 12 | 267 | 380 WP | Completed Comments | 1 CLEAN UP THE SEWER IN YARD AND PUT LIME OUT |
| 12-267-381 | 12-1352 | 2675 ST ANDREWS | 03282012 | 12 | 267 | 381 WO | Work Order Comment | 1 WATER LEAK |
| 12-267-382 | 12-1353 | 4516 28TH STREET | 03282012 | 12 | 267 | 381 WP | Completed Comments | 1 USE 3/4' CURB STOP |
| 12-267-382 | 12-1353 | 4516 28TH STREET | 03282012 | 12 | 267 | 382 WO | Work Order Comment | 1 WATER COMING OUT OF MANHOLE (ON CUSTOMER) |
| 12-267-383 | 12-1354 | 541 BOOKWOOD LANE | 03282012 | 12 | 267 | 382 WP | Completed Comments | 1 ON HE CUSTOMER |
| 12-267-383 | 12-1354 | 541 BOOKWOOD LANE | 03282012 | 12 | 267 | 383 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-384 | 12-1355 | JAYCEE SOCCER COMPLEX | 03282012 | 12 | 267 | 383 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-384 | 12-1355 | JAYCEE SOCCER COMPLEX | 03282012 | 12 | 267 | 384 WO | Work Order Comment | 1 MANHOLE OVERFLOWING AT CORNER OF FIRST FIELD |
| 12-267-385 | 12-1356 | 3501 32ND AVENUE | 03282012 | 12 | 267 | 384 WP | Completed Comments | 1 ON THE CITY - LINE STOPPED UP |
| 12-267-385 | 12-1356 | 3501 32ND AVENUE | 03282012 | 12 | 267 | 385 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-386 | 12-1357 | FULTON AVENUE / A STREET | 03282012 | 12 | 267 | 385 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-386 | 12-1357 | FULTON AVENUE / A STREET | 03282012 | 12 | 267 | 386 WO | Work Order Comment | 1 SEWER CAVE-IN (EMERGENCY) |
| 12-267-386 | 12-1357 | FULTON AVENUE / A STREET | 03282012 | 12 | 267 | 386 WP | Completed Comments | 2 LOCATE #12032707140018 |
| 12-267-387 | 12-1370 | 21ST STREET / 16TH AVENUE | 03292012 | 12 | 267 | 387 WO | Work Order Comment | 1 USE 9 FT X 3" OF 8" PVC PIPE AND 2-8" COUPLING |
| 12-267-387 | 12-1370 | 21ST STREET / 16TH AVENUE | 03292012 | 12 | 267 | 387 WP | Completed Comments | 1 SEWER CAVE-IN |
| 12-267-388 | 12-1374 | 3921 10TH STREET | 03292012 | 12 | 267 | 388 WO | Work Order Comment | 1 DID NOT FIND ANYTHING |
| 12-267-388 | 12-1374 | 3921 10TH STREET | 03292012 | 12 | 267 | 388 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-389 | 12-1386 | 5TH AVENUE / 19TH STREET | 03302012 | 12 | 267 | 389 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-390 | 12-1387 | 16TH STREET BTWN 15TH / 16TH AVES | 03302012 | 12 | 267 | 390 WO | Work Order Comment | 1 ASSIST STREET DIVISION |
| 12-267-390 | 12-1387 | 16TH STREET BTWN 15TH / 16TH AVES | 03302012 | 12 | 267 | 390 WO | Work Order Comment | 1 SMOKE SEWER. (NOT A SEWER PROBLEM. STORM DRAIN PROBLEM. |
| 12-267-390 | 12-1387 | 16TH STREET BTWN 15TH / 16TH AVES | 03302012 | 12 | 267 | 390 WP | Completed Comments | 2 TURNED OVER TO STREET DIVISION) |
| 12-267-391 | 12-1388 | 1421 16TH AVENUE | 03302012 | 12 | 267 | 391 WO | Work Order Comment | 1 SMOKE SEWER LINE - SEWER OK |
| 12-267-391 | 12-1388 | 1421 16TH AVENUE | 03302012 | 12 | 267 | 391 WP | Completed Comments | 1 CAVE-IN ON SEWER |
| 12-267-392 | 12-1391 | 2218 34TH AVENUE | 03302012 | 12 | 267 | 392 WO | Work Order Comment | 1 24" MANHOLE CASTING |
| 12-267-392 | 12-1391 | 2218 34TH AVENUE | 03302012 | 12 | 267 | 392 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-393 | 12-1401 | 2200 32ND AVENUE | 04022012 | 12 | 267 | 393 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-393 | 12-1401 | 2200 32ND AVENUE | 04022012 | 12 | 267 | 393 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-393 | 12-1401 | 2200 32ND AVENUE | 04022012 | 12 | 267 | 393 WP | Completed Comments | 2 LOCATE #12032615041137 |
| 12-267-393 | 12-1401 | 2200 32ND AVENUE | 04022012 | 12 | 267 | 393 WP | Completed Comments | 1 UE 1-4" PIPE PVC AND 2-PVC TO CLAY COUPLING, 4" , TWO BAG OF |
| 12-267-394 | 12-1405 | 6717 11TH AVENUE | 04022012 | 12 | 267 | 394 WO | Work Order Comment | 2 CONCRETE |
| 12-267-394 | 12-1405 | 6717 11TH AVENUE | 04022012 | 12 | 267 | 394 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-30 | 12-141 | 6207 CHERRY STREET | 10212011 | 12 | 267 | 30 WO | Work Order Comment | 1 ON CUSTOMER |
| 12-267-395 | 12-1413 | 4509 8TH AVENUE | 04032012 | 12 | 267 | 395 WO | Work Order Comment | 1 SEWAGE GOING INTO CREEK NEAR CHIP MILL |
| | | | | | | | | 1 DRESS UP (FROM SEWER LEAK REPAIR) |

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|------------|---------|-------------------------------------|----------|----|-----|--------|--------------------|--|
| 12-267-395 | 12-1413 | 4509 8TH AVENUE | 04032012 | 12 | 267 | 395 WP | Completed Comments | 1 USE 12" PIPE OF THE WATER TO RUN OFF |
| 12-267-396 | 12-1415 | 1525 COLLEGE DRIVE | 04032012 | 12 | 267 | 396 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-396 | 12-1415 | 1525 COLLEGE DRIVE | 04032012 | 12 | 267 | 396 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-397 | 12-1416 | 1421 16TH AVENUE | 04032012 | 12 | 267 | 397 WO | Work Order Comment | 1 ASSIST STREET DIVISION |
| 12-267-397 | 12-1416 | 1421 16TH AVENUE | 04032012 | 12 | 267 | 397 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-398 | 12-1417 | 915 48TH AVENUE | 04032012 | 12 | 267 | 398 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-398 | 12-1417 | 915 48TH AVENUE | 04032012 | 12 | 267 | 398 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-399 | 12-1420 | 1311 38TH AVENUE | 04042012 | 12 | 267 | 399 WO | Work Order Comment | 1 CAVE-IN |
| 12-267-399 | 12-1420 | 1311 38TH AVENUE | 04042012 | 12 | 267 | 399 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-400 | 12-1429 | 32ND AVENUE BTWN 13TH / 15TH STS. | 04042012 | 12 | 267 | 400 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-400 | 12-1429 | 32ND AVENUE BTWN 13TH / 15TH STS. | 04042012 | 12 | 267 | 400 WP | Completed Comments | 1 USE FOUR BUCKET OF PLUGS AND |
| 12-267-401 | 12-1436 | 611 56TH AVENUE | 04052012 | 12 | 267 | 401 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-401 | 12-1436 | 611 56TH AVENUE | 04052012 | 12 | 267 | 401 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-33 | 12-144 | 19TH STREET / 32ND AVENUE | 10212011 | 12 | 267 | 33 WO | Work Order Comment | 1 SEWAGE GOING INTO CREEK |
| 12-267-402 | 12-1441 | 32ND AVENUE / 13TH STREET | 04062012 | 12 | 267 | 402 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-402 | 12-1441 | 32ND AVENUE / 13TH STREET | 04062012 | 12 | 267 | 402 WO | Work Order Comment | 2 LOCATE #12032015540994 |
| 12-267-402 | 12-1441 | 32ND AVENUE / 13TH STREET | 04062012 | 12 | 267 | 402 WP | Completed Comments | 1 8" SEWER LINE, THE BELL'S WAS BROKE, USE 4 BUCKET'S OF PLUG |
| 12-267-402 | 12-1441 | 32ND AVENUE / 13TH STREET | 04062012 | 12 | 267 | 402 WP | Completed Comments | 2 TO STOP LEAK |
| 12-267-403 | 12-1445 | 6717 11TH AVENUE | 04062012 | 12 | 267 | 403 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-404 | 12-1447 | 2638 23RD AVENUE | 04062012 | 12 | 267 | 404 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-404 | 12-1447 | 2638 23RD AVENUE | 04062012 | 12 | 267 | 404 WP | Completed Comments | 1 UNSTOP AND FLUSH LINE |
| 12-267-405 | 12-1448 | 2626 14TH STREET | 04062012 | 12 | 267 | 405 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-405 | 12-1448 | 2626 14TH STREET | 04062012 | 12 | 267 | 405 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-406 | 12-1453 | 4016 NORTH HILLS STREET | 04092012 | 12 | 267 | 406 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-406 | 12-1453 | 4016 NORTH HILLS STREET | 04092012 | 12 | 267 | 406 WP | Completed Comments | 1 ON THE CITY |
| 12-267-407 | 12-1466 | HWY 19 BY DEPT. OF REVENUE | 04102012 | 12 | 267 | 407 WO | Work Order Comment | 1 MANHOLE NEEDS CASTING |
| 12-267-407 | 12-1466 | HWY 19 BY DEPT. OF REVENUE | 04102012 | 12 | 267 | 407 WP | Completed Comments | 1 CONCRETE MANHOLE COVER WE USE 2 BAG OF CONCRETE |
| 12-267-408 | 12-1469 | 2218 34TH AVENUE | 04102012 | 12 | 267 | 408 WO | Work Order Comment | 1 SEWER PROBLEM (ON CUSTOMER) |
| 12-267-408 | 12-1469 | 2218 34TH AVENUE | 04102012 | 12 | 267 | 408 WP | Completed Comments | 1 ON THE CITY |
| 12-267-409 | 12-1486 | 3303 DAVIS STREET | 04112012 | 12 | 267 | 409 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-409 | 12-1486 | 3303 DAVIS STREET | 04112012 | 12 | 267 | 409 WP | Completed Comments | 1 NO PROBLEM |
| 12-267-410 | 12-1487 | 34TH AVENUE / VALLY STREET | 04112012 | 12 | 267 | 410 WO | Work Order Comment | 1 MANHOLE LID IS MISSING |
| 12-267-34 | 12-149 | 1472 N LAKELAND DRIVE | 10242011 | 12 | 267 | 34 WO | Work Order Comment | 1 STRONG SEWER ODOR |
| 12-267-411 | 12-1494 | 24TH STREET / 15TH - 16TH AVENUE | 04122012 | 12 | 267 | 411 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-411 | 12-1494 | 24TH STREET / 15TH - 16TH AVENUE | 04122012 | 12 | 267 | 411 WP | Completed Comments | 1 NO SEWER LEAK |
| 12-267-412 | 12-1495 | 321 46TH AVENUE | 04122012 | 12 | 267 | 412 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-412 | 12-1495 | 321 46TH AVENUE | 04122012 | 12 | 267 | 412 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-413 | 12-1498 | 29TH AVENUE / 28TH STREET | 04122012 | 12 | 267 | 413 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-413 | 12-1498 | 29TH AVENUE / 28TH STREET | 04122012 | 12 | 267 | 413 WP | Completed Comments | 1 SMOKE SEWER LINE - CAVE-IN ON THE CITY |
| 12-267-414 | 12-1499 | 2808 29TH AVENUE | 04132012 | 12 | 267 | 414 WO | Work Order Comment | 1 CAVE-IN |
| 12-267-414 | 12-1499 | 2808 29TH AVENUE | 04132012 | 12 | 267 | 414 WP | Completed Comments | 2 LOCATE #12040210130410 |
| 12-267-414 | 12-1499 | 2808 29TH AVENUE | 04132012 | 12 | 267 | 414 WP | Completed Comments | 1 USE 2-BUCKET OF PLUGS, 1-8" PVC PIPE AND TO COUPLING PVC |
| 12-267-415 | 12-1506 | 1001 18TH STREET | 04132012 | 12 | 267 | 415 WO | Work Order Comment | 2 TO CLAY AND PVC TO PVC |
| 12-267-415 | 12-1506 | 1001 18TH STREET | 04132012 | 12 | 267 | 415 WO | Work Order Comment | 1 METER BOX SMELLS OF SEWER |
| 12-267-416 | 12-1507 | 2426 17TH AVENUE | 04132012 | 12 | 267 | 416 WO | Work Order Comment | 4 SERVICE ORDER #SORD00000012577 |
| 12-267-416 | 12-1507 | 2426 17TH AVENUE | 04132012 | 12 | 267 | 416 WP | Completed Comments | 1 SEWER CAVE-IN |
| 12-267-417 | 12-1508 | 34TH AVENUE / VALLY STREET | 04162012 | 12 | 267 | 417 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-417 | 12-1508 | 34TH AVENUE / VALLY STREET | 04162012 | 12 | 267 | 417 WP | Completed Comments | 1 SEWER CAVE-IN |
| 12-267-417 | 12-1508 | 34TH AVENUE / VALLY STREET | 04162012 | 12 | 267 | 417 WP | Completed Comments | 2 LOCATE #12041012090683 |
| 12-267-36 | 12-152 | ANDERSON HOSPITAL AT GREASE TRAP | 10242011 | 12 | 267 | 36 WO | Work Order Comment | 1 REPAIR 6" SEWER |
| 12-267-418 | 12-1535 | 3717 42ND STREET | 04182012 | 12 | 267 | 418 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-418 | 12-1535 | 3717 42ND STREET | 04182012 | 12 | 267 | 418 WP | Completed Comments | 1 SEWER ODOR |
| 12-267-419 | 12-1547 | 4101 27TH AVENUE | 04192012 | 12 | 267 | 419 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-420 | 12-1559 | 3803 43RD AVENUE | 04202012 | 12 | 267 | 420 WO | Work Order Comment | 1 MANHOLE STOPPED UP BY FIREHOUSE AT POPLAR SPRINGS ELEMENTARY |
| 12-267-420 | 12-1559 | 3803 43RD AVENUE | 04202012 | 12 | 267 | 420 WP | Completed Comments | 1 STRONG SEWAGE ODOR |
| 12-267-421 | 12-1560 | SELLERS DRIVE BY RYDER TRUCK RENTAL | 04202012 | 12 | 267 | 421 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-421 | 12-1560 | SELLERS DRIVE BY RYDER TRUCK RENTAL | 04202012 | 12 | 267 | 421 WP | Completed Comments | 1 MANHOLE LID HALFWAY OFF |
| 12-267-422 | 12-1563 | 2404 40TH AVENUE | 04232012 | 12 | 267 | 422 WO | Work Order Comment | 1 REBUILT THE MANHOLE AND FLUSH THE LINE OUT GOOD |
| | | | | | | | | 1 DITCH BEHIND HOUSE SMELLS LIKE RAW SEWAGE |

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| 12-267-423 | 12-1564 | 1619 34TH AVENUE | 04232012 | 12 | 267 | 423 WO | Work Order Comment | 1 RAW SEWAGE OR STANDING WATER (ON THEM) |
| 12-267-423 | 12-1564 | 1619 34TH AVENUE | 04232012 | 12 | 267 | 423 WP | Completed Comments | 1 CUSTOMER LINE BROKE DOWN |
| 12-267-424 | 12-1581 | 40TH AVENUE / 24TH STREET | 04262012 | 12 | 267 | 424 WO | Work Order Comment | 1 SEWAGE ODOR (OPEN AND RUNNING) |
| 12-267-424 | 12-1581 | 40TH AVENUE / 24TH STREET | 04262012 | 12 | 267 | 424 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-425 | 12-1582 | 4017 31ST AVENUE | 04262012 | 12 | 267 | 425 WO | Work Order Comment | 1 FLUSH LINE (ON THEM) |
| 12-267-425 | 12-1582 | 4017 31ST AVENUE | 04262012 | 12 | 267 | 425 WP | Completed Comments | 1 ON TEH CUSTOMER |
| 12-267-426 | 12-1583 | 1701 36TH AVENUE | 04262012 | 12 | 267 | 426 WO | Work Order Comment | 1 BATHTUB BACKING UP (ON THEM) |
| 12-267-426 | 12-1583 | 1701 36TH AVENUE | 04262012 | 12 | 267 | 426 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-427 | 12-1593 | 29TH AVENUE / 17TH STREET | 04272012 | 12 | 267 | 427 WO | Work Order Comment | 1 CAVE-IN |
| 12-267-427 | 12-1593 | 29TH AVENUE / 17TH STREET | 04272012 | 12 | 267 | 427 WO | Work Order Comment | 2 LOCATE #12042009110220 |
| 12-267-427 | 12-1593 | 29TH AVENUE / 17TH STREET | 04272012 | 12 | 267 | 427 WP | Completed Comments | 1 NO CAVE-IN |
| 12-267-428 | 12-1594 | 626 64TH AVENUE | 04272012 | 12 | 267 | 428 WO | Work Order Comment | 1 SLOW DRAINAGE IN MIDDLE OF ROAD NEXT TO CURVE |
| 12-267-428 | 12-1594 | 626 64TH AVENUE | 04272012 | 12 | 267 | 428 WP | Completed Comments | 1 PROBLEM WAS NOT ON THE CITY SIDE |
| 12-267-429 | 12-1595 | 2212 39TH AVENUE | 04272012 | 12 | 267 | 429 WO | Work Order Comment | 1 SEWAGE BLOWING OUT OF MANHOLE |
| 12-267-429 | 12-1595 | 2212 39TH AVENUE | 04272012 | 12 | 267 | 429 WP | Completed Comments | 1 ON THE CITY |
| 12-267-430 | 12-1596 | 29TH AVENUE / 17TH STREET | 04272012 | 12 | 267 | 430 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-430 | 12-1596 | 29TH AVENUE / 17TH STREET | 04272012 | 12 | 267 | 430 WP | Completed Comments | 1 NO CAVE-IN |
| 12-267-431 | 12-1598 | 2204 GRAND AVENUE | 04272012 | 12 | 267 | 431 WO | Work Order Comment | 1 LOOSE MANHOLE COVER |
| 12-267-431 | 12-1598 | 2204 GRAND AVENUE | 04272012 | 12 | 267 | 431 WP | Completed Comments | 1 PUT COVER BACK ON MANHOLE |
| 12-267-432 | 12-1612 | 4510 18TH AVENUE | 05022012 | 12 | 267 | 432 WO | Work Order Comment | 1 SEWAGE COMING OUT OF GROUND BEHIND THE HOUSE |
| 12-267-432 | 12-1612 | 4510 18TH AVENUE | 05022012 | 12 | 267 | 432 WO | Work Order Comment | 2 BY NORTHWOOD COUNTRY CLUB |
| 12-267-432 | 12-1612 | 4510 18TH AVENUE | 05022012 | 12 | 267 | 432 WP | Completed Comments | 1 ON THE CITY |
| 12-267-433 | 12-1613 | 4505 PAULING STREET | 05022012 | 12 | 267 | 433 WO | Work Order Comment | 1 SEWER OR WATER LEAK? (ON THEM) |
| 12-267-434 | 12-1614 | 2400 34TH AVENUE | 05022012 | 12 | 267 | 434 WO | Work Order Comment | 1 FLUSH LINE (ON THEM) |
| 12-267-435 | 12-1615 | 1207 30TH AVENUE | 05022012 | 12 | 267 | 435 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-435 | 12-1615 | 1207 30TH AVENUE | 05022012 | 12 | 267 | 435 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-436 | 12-1617 | 911 45TH STREET | 05022012 | 12 | 267 | 436 WO | Work Order Comment | 1 SEWER STOPPED UP |
| 12-267-436 | 12-1617 | 911 45TH STREET | 05022012 | 12 | 267 | 436 WP | Completed Comments | 1 ON THE CITY |
| 12-267-437 | 12-1619 | 4806 13TH STREET | 05022012 | 12 | 267 | 437 WO | Work Order Comment | 1 RAW SEWAGE IN DITCH (ON US) |
| 12-267-437 | 12-1619 | 4806 13TH STREET | 05022012 | 12 | 267 | 437 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-438 | 12-1621 | 4806 13TH STREET | 05032012 | 12 | 267 | 438 WO | Work Order Comment | 1 SEWAGE ODOR (ON THEM) |
| 12-267-438 | 12-1621 | 4806 13TH STREET | 05032012 | 12 | 267 | 438 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-439 | 12-1623 | 4830 15TH STREET | 05032012 | 12 | 267 | 439 WO | Work Order Comment | 1 SEWAGE RUNNING INTO CREEK (ON THEM) |
| 12-267-439 | 12-1623 | 4830 15TH STREET | 05032012 | 12 | 267 | 439 WP | Completed Comments | 1 ON THE CITY |
| 12-267-440 | 12-1624 | 1727 26TH AVENUE | 05032012 | 12 | 267 | 440 WO | Work Order Comment | 1 SEWER ODOR (NOTHING FOUND) |
| 12-267-440 | 12-1624 | 1727 26TH AVENUE | 05032012 | 12 | 267 | 440 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-441 | 12-1625 | 521 18TH STREET | 05032012 | 12 | 267 | 441 WO | Work Order Comment | 1 SEWER LINE STOPPED UP (ON US) |
| 12-267-442 | 12-1626 | 1320 45TH AVENUE | 05032012 | 12 | 267 | 442 WO | Work Order Comment | 1 SEWER LINE STOPPED UP (NOTHING FOUND) |
| 12-267-443 | 12-1627 | 5606 30TH PLACE | 05032012 | 12 | 267 | 443 WO | Work Order Comment | 1 CAMERA SEWER |
| 12-267-444 | 12-1636 | 2400 34TH AVENUE | 05042012 | 12 | 267 | 444 WO | Work Order Comment | 1 SEWER ODOR IN BATHTUB |
| 12-267-444 | 12-1636 | 2400 34TH AVENUE | 05042012 | 12 | 267 | 444 WP | Completed Comments | 1 ON THE CITY |
| 12-267-445 | 12-1637 | 7706 LIZELIA ROAD | 05042012 | 12 | 267 | 445 WO | Work Order Comment | 1 MANHOLE COVER IS ROUGH. HOLE BY MANHOLE COVER. |
| 12-267-445 | 12-1637 | 7706 LIZELIA ROAD | 05042012 | 12 | 267 | 445 WP | Completed Comments | 1 CHECKED SEWER LEATERALL TO SEE IF IT WAS BROKEN DOWN |
| 12-267-446 | 12-1639 | 4102 58TH PLACE | 05042012 | 12 | 267 | 446 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-446 | 12-1639 | 4102 58TH PLACE | 05042012 | 12 | 267 | 446 WP | Completed Comments | 1 VOID |
| 12-267-447 | 12-1649 | 1532 49TH AVENUE | 05072012 | 12 | 267 | 447 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-447 | 12-1649 | 1532 49TH AVENUE | 05072012 | 12 | 267 | 447 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-448 | 12-1650 | 107J AVENUE / 18TH STREET | 05072012 | 12 | 267 | 448 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-448 | 12-1650 | 107J AVENUE / 18TH STREET | 05072012 | 12 | 267 | 448 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-449 | 12-1653 | CHIP MILL | 05072012 | 12 | 267 | 449 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-449 | 12-1653 | CHIP MILL | 05072012 | 12 | 267 | 449 WP | Completed Comments | 1 REPAIR 24" SEWER LINE |
| 12-267-450 | 12-1660 | 1320 45TH AVENUE | 05082012 | 12 | 267 | 450 WO | Work Order Comment | 1 SEWER LINE STOPPED |
| 12-267-450 | 12-1660 | 1320 45TH AVENUE | 05082012 | 12 | 267 | 450 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-451 | 12-1661 | 4102 58TH PLACE | 05082012 | 12 | 267 | 451 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-451 | 12-1661 | 4102 58TH PLACE | 05082012 | 12 | 267 | 451 WO | Work Order Comment | 2 LOCATE #12042413300705 |
| 12-267-451 | 12-1661 | 4102 58TH PLACE | 05082012 | 12 | 267 | 451 WO | Work Order Comment | 3 LOCATE #12050708540165 (EMERGENCY) |
| 12-267-451 | 12-1661 | 4102 58TH PLACE | 05082012 | 12 | 267 | 451 WP | Completed Comments | 1 USE 60 FT X 3/4 OF COPPER TO REPAIR A 3/4 SERVICE POLY LINE |
| 12-267-452 | 12-1664 | WESTMINISTER DRIVE / BROOKWOOD LANE | 05082012 | 12 | 267 | 452 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-453 | 12-1667 | 5606 30TH PLACE | 05092012 | 12 | 267 | 453 WO | Work Order Comment | 1 REPAIR SEWER LINE |

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| 12-267-453 | 12-1667 | 5606 30TH PLACE | 05092012 | 12 | 267 | 453 WO | Work Order Comment | 2 LOCATE #12050309260228 |
| 12-267-454 | 12-1669 | 19TH STREET / 26TH AVENUE | 05092012 | 12 | 267 | 454 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-454 | 12-1669 | 19TH STREET / 26TH AVENUE | 05092012 | 12 | 267 | 454 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-455 | 12-1670 | 1311 47TH AVENUE | 05092012 | 12 | 267 | 455 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-456 | 12-1671 | 1207 30TH AVENUEP | 05092012 | 12 | 267 | 456 WO | Work Order Comment | 1 SEWAGE BACKING UP |
| 12-267-457 | 12-1672 | 1207 30TH AVENUE | 05092012 | 12 | 267 | 457 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-458 | 12-1674 | 14TH STREET / 18TH AVENUE | 05092012 | 12 | 267 | 458 WO | Work Order Comment | 1 MANHOLE COVER MISSING |
| 12-267-458 | 12-1674 | 14TH STREET / 18TH AVENUE | 05092012 | 12 | 267 | 458 WP | Completed Comments | 1 REPLACE MANHOLE |
| 12-267-459 | 12-1680 | 1221 13TH STREET | 05092012 | 12 | 267 | 459 WO | Work Order Comment | 1 MANHOLE COVER NEEDS ADJUSTING |
| 12-267-459 | 12-1680 | 1221 13TH STREET | 05092012 | 12 | 267 | 459 WP | Completed Comments | 1 ON THE CITY |
| 12-267-460 | 12-1686 | 4641 ROYAL ROAD | 05102012 | 12 | 267 | 460 WO | Work Order Comment | 1 SEWER COMING UP IN YARD |
| 12-267-460 | 12-1686 | 4641 ROYAL ROAD | 05102012 | 12 | 267 | 460 WP | Completed Comments | 1 ON THE CITY |
| 12-267-461 | 12-1698 | 3210 NORTH VIEW DRIVE | 05112012 | 12 | 267 | 461 WO | Work Order Comment | 1 GRASS INSIDE MANHOLE |
| 12-267-461 | 12-1698 | 3210 NORTH VIEW DRIVE | 05112012 | 12 | 267 | 461 WP | Completed Comments | 1 TURN OVER TO STREET DEPT |
| 12-267-462 | 12-1699 | 3210 NORTH VIEW DRIVE | 05112012 | 12 | 267 | 462 WO | Work Order Comment | 1 GRASS INSIDE SEWER LINE |
| 12-267-463 | 12-1700 | 6303 NORTH HILLS STREET | 05112012 | 12 | 267 | 463 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-463 | 12-1700 | 6303 NORTH HILLS STREET | 05112012 | 12 | 267 | 463 WP | Completed Comments | 1 ON THE CITY |
| 12-267-464 | 12-1703 | 4126 31ST AVENUE | 05112012 | 12 | 267 | 464 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-464 | 12-1703 | 4126 31ST AVENUE | 05112012 | 12 | 267 | 464 WP | Completed Comments | 1 ON THE CITY |
| 12-267-465 | 12-1710 | 45TH AVENUE BTWN 9TH - 10TH STREETS | 05142012 | 12 | 267 | 465 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-465 | 12-1710 | 45TH AVENUE BTWN 9TH - 10TH STREETS | 05142012 | 12 | 267 | 465 WP | Completed Comments | 1 SMOKE SEWER LINE |
| 12-267-466 | 12-1711 | 4047 34TH AVENUE | 05142012 | 12 | 267 | 466 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-467 | 12-1718 | 907 45TH AVENUE | 05152012 | 12 | 267 | 467 WO | Work Order Comment | 1 SEWER CAVE-IN |
| 12-267-467 | 12-1718 | 907 45TH AVENUE | 05152012 | 12 | 267 | 467 WP | Completed Comments | 2 LOCATE #12050811420575 |
| 12-267-467 | 12-1718 | 907 45TH AVENUE | 05152012 | 12 | 267 | 467 WP | Completed Comments | 1 SMOKE SEWER LINE |
| 12-267-468 | 12-1722 | 3708 49TH COURT | 05152012 | 12 | 267 | 468 WO | Work Order Comment | 1 SEWER PROBLEM -- ON THEM -- |
| 12-267-468 | 12-1722 | 3708 49TH COURT | 05152012 | 12 | 267 | 468 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-469 | 12-1723 | 1114 47TH AVENUE | 05152012 | 12 | 267 | 469 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-469 | 12-1723 | 1114 47TH AVENUE | 05152012 | 12 | 267 | 469 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-470 | 12-1745 | 411 KINGS ROAD | 05162012 | 12 | 267 | 470 WO | Work Order Comment | 1 SEWER TAP |
| 12-267-470 | 12-1745 | 411 KINGS ROAD | 05162012 | 12 | 267 | 470 WO | Work Order Comment | 2 LOCATE #12050708470148 |
| 12-267-470 | 12-1745 | 411 KINGS ROAD | 05162012 | 12 | 267 | 470 WP | Completed Comments | 1 VOID |
| 12-267-471 | 12-1749 | 2322 VALLEY ROAD (ATLAS ROOFING) | 05162012 | 12 | 267 | 471 WO | Work Order Comment | 1 SEWER TAP ORDER |
| 12-267-471 | 12-1749 | 2322 VALLEY ROAD (ATLAS ROOFING) | 05162012 | 12 | 267 | 471 WO | Work Order Comment | 2 LOCATE #12051407490124 |
| 12-267-471 | 12-1749 | 2322 VALLEY ROAD (ATLAS ROOFING) | 05162012 | 12 | 267 | 471 WO | Work Order Comment | 3 NAME: ATLAS ROOFING |
| 12-267-471 | 12-1749 | 2322 VALLEY ROAD (ATLAS ROOFING) | 05162012 | 12 | 267 | 471 WO | Work Order Comment | 4 SEWER TAP ORDER #5134 |
| 12-267-471 | 12-1749 | 2322 VALLEY ROAD (ATLAS ROOFING) | 05162012 | 12 | 267 | 471 WP | Completed Comments | 1 CUT INTO MANHOLE AND USE 1-BAG OF CONCRETE. THEY USE THEY |
| 12-267-471 | 12-1749 | 2322 VALLEY ROAD (ATLAS ROOFING) | 05162012 | 12 | 267 | 471 WP | Completed Comments | 2 OWN SEWER PIPE TO MAKE A 4' SEWER TAP |
| 12-267-472 | 12-1750 | 4641 ROYAL ROAD | 05162012 | 12 | 267 | 472 WO | Work Order Comment | 1 SEWER COMING UP IN YARD --ON THEM-- |
| 12-267-472 | 12-1750 | 4641 ROYAL ROAD | 05162012 | 12 | 267 | 472 WP | Completed Comments | 1 FLUSH MANHOLE |
| 12-267-47 | 12-176 | 2534 26TH STREET | 10262011 | 12 | 267 | 47 WO | Work Order Comment | 1 SEWER PROBLEM ON THEM |
| 12-267-47 | 12-176 | 2534 26TH STREET | 10262011 | 12 | 267 | 47 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-473 | 12-1770 | 3915 36TH AVENUE | 05182012 | 12 | 267 | 473 WO | Work Order Comment | 1 SEWER RUNNING IN DITCH *** ON US *** |
| 12-267-474 | 12-1773 | SWEET GUM BOTTOM ROAD | 05182012 | 12 | 267 | 474 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-474 | 12-1773 | SWEET GUM BOTTOM ROAD | 05182012 | 12 | 267 | 474 WO | Work Order Comment | 2 LOCATE #12051513530776 |
| 12-267-474 | 12-1773 | SWEET GUM BOTTOM ROAD | 05182012 | 12 | 267 | 474 WP | Completed Comments | 1 REPACK SEWER LINE AND PATCH IT |
| 12-267-475 | 12-1784 | 1201 WHITE OAK DRIVE | 05212012 | 12 | 267 | 475 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-475 | 12-1784 | 1201 WHITE OAK DRIVE | 05212012 | 12 | 267 | 475 WP | Completed Comments | 1 USE 1-SECTION OF SEWER PIPE 8"X13' AND 2-8" PVC TO CLAY |
| 12-267-475 | 12-1784 | 1201 WHITE OAK DRIVE | 05212012 | 12 | 267 | 475 WP | Completed Comments | 2 COUPLING TO REPAIR A SEWER LINE |
| 12-267-476 | 12-1786 | 5002 WEST GATE HILLS DRIVE | 05212012 | 12 | 267 | 476 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-476 | 12-1786 | 5002 WEST GATE HILLS DRIVE | 05212012 | 12 | 267 | 476 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-477 | 12-1797 | 6225 NORTH HILLS STREET | 05222012 | 12 | 267 | 477 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-477 | 12-1797 | 6225 NORTH HILLS STREET | 05222012 | 12 | 267 | 477 WP | Completed Comments | 2 LOCATE #12051115040583 |
| 12-267-478 | 12-1798 | HWY 39 N / WINDMILL DRIVE | 05222012 | 12 | 267 | 478 WO | Work Order Comment | 1 SEWER WAS NOT BROKE DOWN JUST STOPPED UP |
| 12-267-478 | 12-1798 | HWY 39 N / WINDMILL DRIVE | 05222012 | 12 | 267 | 478 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 12-267-479 | 12-1815 | 6425 BOUNDS ROAD | 05252012 | 12 | 267 | 479 WO | Work Order Comment | 2 LOCATE #12051410030554 |
| 12-267-479 | 12-1815 | 6425 BOUNDS ROAD | 05252012 | 12 | 267 | 479 WP | Completed Comments | 1 VERIFY ON SEWER (NOT ON SEWER) |
| 12-267-480 | 12-1816 | 5024 37TH STREET | 05252012 | 12 | 267 | 480 WO | Work Order Comment | 1 NOT ON CITY SEWER |
| | | | | | | | | 1 VERIFY ON SEWER (NOT ON SEWER) |

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| 12-267-480 | 12-1816 | 5024 37TH STREET | 05252012 | 12 | 267 | 480 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 12-267-481 | 12-1817 | 215 NORTH HILLS STREET | 05252012 | 12 | 267 | 481 WO | Work Order Comment | 1 VERIFY ON SEWER (NOT ON SEWER) |
| 12-267-481 | 12-1817 | 215 NORTH HILLS STREET | 05252012 | 12 | 267 | 481 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 12-267-482 | 12-1818 | 2405 37TH AVENUE | 05252012 | 12 | 267 | 482 WO | Work Order Comment | 1 SEWER LINE STOPPED UP |
| 12-267-482 | 12-1818 | 2405 37TH AVENUE | 05252012 | 12 | 267 | 482 WP | Completed Comments | 1 ON THE CITY |
| 12-267-483 | 12-1832 | 922 A STREET | 05292012 | 12 | 267 | 483 WO | Work Order Comment | 1 VERIFY ON SEWER |
| 12-267-483 | 12-1832 | 922 A STREET | 05292012 | 12 | 267 | 483 WO | Work Order Comment | 4 SERVICE ORDER #SORD00000046867 |
| 12-267-484 | 12-1834 | 3803 43RD STREET | 05292012 | 12 | 267 | 484 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-484 | 12-1834 | 3803 43RD STREET | 05292012 | 12 | 267 | 484 WO | Work Order Comment | 2 LOCATE #12052408580234 (EMERGENCY) |
| 12-267-484 | 12-1834 | 3803 43RD STREET | 05292012 | 12 | 267 | 484 WP | Completed Comments | 1 SEWER BROKE DOWN REPAIRED |
| 12-267-485 | 12-1835 | 3217 52ND STREET | 05292012 | 12 | 267 | 485 WO | Work Order Comment | 1 STANDING SEWAGE WATER STINKS (ON US) |
| 12-267-485 | 12-1835 | 3217 52ND STREET | 05292012 | 12 | 267 | 485 WP | Completed Comments | 1 ON THE CITY |
| 12-267-486 | 12-1836 | 1723 16TH AVENUE | 05292012 | 12 | 267 | 486 WO | Work Order Comment | 1 SEWER BACKING UP (ON THEM) |
| 12-267-486 | 12-1836 | 1723 16TH AVENUE | 05292012 | 12 | 267 | 486 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-487 | 12-1845 | 3803 43RD STREET | 05302012 | 12 | 267 | 487 WO | Work Order Comment | 1 DRESS UP |
| 12-267-488 | 12-1847 | 6139 POPLAR SPRINGS DRIVE | 05302012 | 12 | 267 | 488 WO | Work Order Comment | 1 MANHOLE CASTING |
| 12-267-489 | 12-1849 | 5224 ASH AVENUE | 05302012 | 12 | 267 | 489 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-490 | 12-1858 | 1502 29TH AVENUE | 05312012 | 12 | 267 | 490 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-490 | 12-1858 | 1502 29TH AVENUE | 05312012 | 12 | 267 | 490 WP | Completed Comments | 1 ON THE CITY |
| 12-267-491 | 12-1869 | 5507 O AVENUE | 06012012 | 12 | 267 | 491 WO | Work Order Comment | 1 ROUND CAP IN YARD BROKEN AND IT'S OPEN |
| 12-267-491 | 12-1869 | 5507 O AVENUE | 06012012 | 12 | 267 | 491 WP | Completed Comments | 1 ON THE CUSTOMER-CLEAN OUT PLUG WAS BROKEN BELONGS TO THE |
| 12-267-491 | 12-1869 | 5507 O AVENUE | 06012012 | 12 | 267 | 491 WP | Completed Comments | 2 HOMEOWNER |
| 12-267-492 | 12-1870 | 2015 MOSBY ROAD | 06012012 | 12 | 267 | 492 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-492 | 12-1870 | 2015 MOSBY ROAD | 06012012 | 12 | 267 | 492 WP | Completed Comments | 1 ON THE CITY |
| 12-267-493 | 12-1875 | 2216 FRONT STREET | 06042012 | 12 | 267 | 493 WO | Work Order Comment | 1 SEWER TAP - TAP SIZE 4 INCH |
| 12-267-493 | 12-1875 | 2216 FRONT STREET | 06042012 | 12 | 267 | 493 WO | Work Order Comment | 2 LOCATE #12050811170527 |
| 12-267-493 | 12-1875 | 2216 FRONT STREET | 06042012 | 12 | 267 | 493 WO | Work Order Comment | 3 NAME: JIMMY ROWCLIFF |
| 12-267-493 | 12-1875 | 2216 FRONT STREET | 06042012 | 12 | 267 | 493 WO | Work Order Comment | 4 WATER TAP ORDER #5133 |
| 12-267-494 | 12-1879 | HWY 11 / 80 | 06042012 | 12 | 267 | 494 WO | Work Order Comment | 1 WATER AND SEWER TAP MADE |
| 12-267-495 | 12-1891 | 3017 36TH AVENUE | 06052012 | 12 | 267 | 495 WO | Work Order Comment | 1 MANHOLE RISERS OFF |
| 12-267-495 | 12-1891 | 3017 36TH AVENUE | 06052012 | 12 | 267 | 495 WP | Completed Comments | 1 SEWER BACKING UP (ON THEM) |
| 12-267-496 | 12-1899 | 6701 OLD HWY 80 W | 06072012 | 12 | 267 | 496 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-496 | 12-1899 | 6701 OLD HWY 80 W | 06072012 | 12 | 267 | 496 WP | Completed Comments | 1 SEWER STOPPED UP |
| 12-267-55 | 12-210 | MARTIN LUTHER KING / 8TH STREET | 11022011 | 12 | 267 | 55 WO | Work Order Comment | 1 ON THE CITY AT THE LIFTSTATION |
| 12-267-55 | 12-210 | MARTIN LUTHER KING / 8TH STREET | 11022011 | 12 | 267 | 55 WP | Completed Comments | 1 WATER BACKING UP IN TOILET |
| 12-267-59 | 12-216 | 5818 HWY 493-LAST CHANCE CONVENIENT | 11022011 | 12 | 267 | 59 WO | Work Order Comment | 1 ON CUSTOMER |
| 12-267-62 | 12-226 | 4622 POPLAR SPRINGS DRIVE | 11032011 | 12 | 267 | 62 WO | Work Order Comment | 1 CAP OFF SEWER LINE |
| 12-267-62 | 12-226 | 4622 POPLAR SPRINGS DRIVE | 11032011 | 12 | 267 | 62 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 12-267-65 | 12-252 | NORTH FRONTAGE ROAD / 18TH AVENUE | 11092011 | 12 | 267 | 65 WO | Work Order Comment | 1 ON CUSTOMER |
| 12-267-65 | 12-252 | NORTH FRONTAGE ROAD / 18TH AVENUE | 11092011 | 12 | 267 | 65 WP | Completed Comments | 1 FLUSH LIFT STATION |
| 12-267-85 | 12-343 | RUBUSH AVENUE / ST LUKE STREET | 11302011 | 12 | 267 | 85 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-85 | 12-343 | RUBUSH AVENUE / ST LUKE STREET | 11302011 | 12 | 267 | 85 WP | Completed Comments | 1 REPAIR CHORINE LINE |
| 12-267-86 | 12-344 | STATE BLVD / WOODVIEW | 11302011 | 12 | 267 | 86 WO | Work Order Comment | 1 VOID |
| 12-267-86 | 12-344 | STATE BLVD / WOODVIEW | 11302011 | 12 | 267 | 86 WP | Completed Comments | 1 STRONG SEWER ODOR |
| 12-267-87 | 12-345 | 2022 38TH AVENUE | 11302011 | 12 | 267 | 87 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-87 | 12-345 | 2022 38TH AVENUE | 11302011 | 12 | 267 | 87 WP | Completed Comments | 1 STRONG SEWER ODOR |
| 12-267-88 | 12-352 | 29TH AVE / SOWASHEE | 12012011 | 12 | 267 | 88 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-88 | 12-352 | 29TH AVE / SOWASHEE | 12012011 | 12 | 267 | 88 WP | Completed Comments | 1 SEWAGE BACKING UP |
| 12-267-89 | 12-353 | 405 41ST AVENUE | 12022011 | 12 | 267 | 89 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-89 | 12-353 | 405 41ST AVENUE | 12022011 | 12 | 267 | 89 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 12-267-115 | 12-415 | OLD HWY 80 / 59TH AVE | 12122011 | 12 | 267 | 115 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-115 | 12-415 | OLD HWY 80 / 59TH AVE | 12122011 | 12 | 267 | 115 WP | Completed Comments | 1 MANHOLE CASTING NEEDS REPLACING |
| 12-267-119 | 12-425 | 309 50TH COURT | 12132011 | 12 | 267 | 119 WO | Work Order Comment | 1 REPLACE (1) MANHOLE COVER |
| 12-267-119 | 12-425 | 309 50TH COURT | 12132011 | 12 | 267 | 119 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 12-267-123 | 12-440 | 2219 52ND AVENUE | 12142011 | 12 | 267 | 123 WO | Work Order Comment | 1 REPAIR 12" SEWER LINE |
| 12-267-123 | 12-440 | 2219 52ND AVENUE | 12142011 | 12 | 267 | 123 WO | Work Order Comment | 1 SEWER TAP |
| 12-267-123 | 12-440 | 2219 52ND AVENUE | 12142011 | 12 | 267 | 123 WO | Work Order Comment | 3 LOCATE #11101410260293 |
| 12-267-123 | 12-440 | 2219 52ND AVENUE | 12142011 | 12 | 267 | 123 WO | Work Order Comment | 2 GREG COLE-HOMEOWNER / TIBBETTS-PLUMBER |
| 12-267-123 | 12-440 | 2219 52ND AVENUE | 12142011 | 12 | 267 | 123 WO | Work Order Comment | 4 SEWER TAP ORDER #5123 |

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| 12-267-123 | 12-440 | 2219 52ND AVENUE | 12142011 | 12 | 267 | 123 WP | Completed Comments | 1 USED 4" SEWER PIPE |
| 12-267-124 | 12-445 | 42ND COURT / STATE BLVD | 12152011 | 12 | 267 | 124 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 12-267-125 | 12-448 | 4326 TERRY STREET | 12152011 | 12 | 267 | 125 WO | Work Order Comment | 1 SEWAGE RUNNING INTO DITCH |
| 12-267-125 | 12-448 | 4326 TERRY STREET | 12152011 | 12 | 267 | 125 WP | Completed Comments | 1 ON THE CITY |
| 12-267-126 | 12-449 | 1704 15TH STREET | 12152011 | 12 | 267 | 126 WO | Work Order Comment | 1 BROWN WATER BACKING UP IN SINK AND TUB |
| 12-267-126 | 12-449 | 1704 15TH STREET | 12152011 | 12 | 267 | 126 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-132 | 12-480 | TRAINING FACILITY | 12192011 | 12 | 267 | 132 WO | Work Order Comment | 1 LOWER MANHOLE AND VALVE BOX |
| 12-267-134 | 12-489 | 14TH STREET / 9TH AVENUE | 12202011 | 12 | 267 | 134 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-134 | 12-489 | 14TH STREET / 9TH AVENUE | 12202011 | 12 | 267 | 134 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-135 | 12-490 | 2231 39TH AVENUE | 12202011 | 12 | 267 | 135 WO | Work Order Comment | 1 FLUSH SEWER LINES |
| 12-267-135 | 12-490 | 2231 39TH AVENUE | 12202011 | 12 | 267 | 135 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-136 | 12-491 | 5709 MANNING STREET | 12202011 | 12 | 267 | 136 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-136 | 12-491 | 5709 MANNING STREET | 12202011 | 12 | 267 | 136 WP | Completed Comments | 1 ON THE CITY |
| 12-267-137 | 12-492 | 3115 GRANDVIEW AVENUE | 12202011 | 12 | 267 | 137 WO | Work Order Comment | 1 FLUSHED SEWER LINES. NOTHING FOUND. |
| 12-267-137 | 12-492 | 3115 GRANDVIEW AVENUE | 12202011 | 12 | 267 | 137 WP | Completed Comments | 1 ON CUSTOMER |
| 12-267-141 | 12-500 | 5TH STREET / MERIDIAN PRODUCE | 12222011 | 12 | 267 | 141 WO | Work Order Comment | 1 SEWAGE BACKING UP |
| 12-267-141 | 12-500 | 5TH STREET / MERIDIAN PRODUCE | 12222011 | 12 | 267 | 141 WP | Completed Comments | 1 ON THE CITY |
| 12-267-142 | 12-501 | 11TH AVENUE / 19TH STREET | 12222011 | 12 | 267 | 142 WO | Work Order Comment | 1 MANHOLE OVERFLOWING AND STRONG SEWER ODOR |
| 12-267-142 | 12-501 | 11TH AVENUE / 19TH STREET | 12222011 | 12 | 267 | 142 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-143 | 12-502 | 19TH STREET / 20TH STREET | 12222011 | 12 | 267 | 143 WO | Work Order Comment | 1 MANHOLE OVERFLOWING GOING INTO DITCH |
| 12-267-143 | 12-502 | 19TH STREET / 20TH STREET | 12222011 | 12 | 267 | 143 WP | Completed Comments | 1 ON THE CITY |
| 12-267-144 | 12-503 | 2214 30TH AVENUE | 12222011 | 12 | 267 | 144 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-144 | 12-503 | 2214 30TH AVENUE | 12222011 | 12 | 267 | 144 WP | Completed Comments | 1 ON THE CITY |
| 12-267-149 | 12-512 | 205 30TH AVENUE | 12272011 | 12 | 267 | 149 WO | Work Order Comment | 1 REPAIR MANHOLE INLET |
| 12-267-149 | 12-512 | 205 30TH AVENUE | 12272011 | 12 | 267 | 149 WP | Completed Comments | 1 PUT A OLD TAP ON MANHOLE |
| 12-267-151 | 12-519 | 6316 5TH COURT | 12282011 | 12 | 267 | 151 WO | Work Order Comment | 1 MANHOLE OVERFLOW PAST BRIDGE |
| 12-267-151 | 12-519 | 6316 5TH COURT | 12282011 | 12 | 267 | 151 WP | Completed Comments | 1 ON THE CITY |
| 12-267-152 | 12-520 | 3107 10TH AVENUE | 12282011 | 12 | 267 | 152 WO | Work Order Comment | 1 FLUSHED MANHOLE |
| 12-267-152 | 12-520 | 3107 10TH AVENUE | 12282011 | 12 | 267 | 152 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-153 | 12-521 | 5059 37TH STREET | 12282011 | 12 | 267 | 153 WO | Work Order Comment | 1 BLACK WATER AND SEWER SMELL COMING FROM GALLAGHER CREEK |
| 12-267-153 | 12-521 | 5059 37TH STREET | 12282011 | 12 | 267 | 153 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-154 | 12-522 | SUPER 8 HOTEL / OLD HWY 80 | 12282011 | 12 | 267 | 154 WO | Work Order Comment | 1 SEWAGE GOING INTO DITCH |
| 12-267-154 | 12-522 | SUPER 8 HOTEL / OLD HWY 80 | 12282011 | 12 | 267 | 154 WP | Completed Comments | 1 ON THE CITY |
| 12-267-166 | 12-552 | 2403 42ND AVENUE | 01042012 | 12 | 267 | 166 WO | Work Order Comment | 1 RAW SEWAGE COMING UP IN BASEMENT |
| 12-267-166 | 12-552 | 2403 42ND AVENUE | 01042012 | 12 | 267 | 166 WP | Completed Comments | 1 ON THE CITY |
| 12-267-167 | 12-553 | 4212 8TH STREET | 01042012 | 12 | 267 | 167 WO | Work Order Comment | 1 SEWAGE IN CREEK |
| 12-267-167 | 12-553 | 4212 8TH STREET | 01042012 | 12 | 267 | 167 WP | Completed Comments | 1 ON THE CITY |
| 12-267-168 | 12-554 | 412 44TH AVENUE | 01042012 | 12 | 267 | 168 WO | Work Order Comment | 1 SEWAGE LEAK AT END OF DRIVEWAY |
| 12-267-168 | 12-554 | 412 44TH AVENUE | 01042012 | 12 | 267 | 168 WP | Completed Comments | 1 ON THEM |
| 12-267-169 | 12-559 | 412 44TH AVENUE | 01052012 | 12 | 267 | 169 WO | Work Order Comment | 1 MANHOLE STOPPED UP / OVERFLOWING |
| 12-267-169 | 12-559 | 412 44TH AVENUE | 01052012 | 12 | 267 | 169 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-170 | 12-561 | 4905 SHUMATE ROAD | 01052012 | 12 | 267 | 170 WO | Work Order Comment | 1 LIMB TRUCK HIT SEWAGE LINE ON PROPERTY |
| 12-267-170 | 12-561 | 4905 SHUMATE ROAD | 01052012 | 12 | 267 | 170 WP | Completed Comments | 1 ON THE CUSTOMER - SEWER LINE |
| 12-267-173 | 12-582 | NORTHWOOD GOLF COURSE | 01092012 | 12 | 267 | 173 WO | Work Order Comment | 1 SEWAGE GOING INTO DITCH |
| 12-267-173 | 12-582 | NORTHWOOD GOLF COURSE | 01092012 | 12 | 267 | 173 WP | Completed Comments | 1 ON THE CITY |
| 12-267-174 | 12-584 | 4070 34TH AVENUE | 01092012 | 12 | 267 | 174 WO | Work Order Comment | 1 SEWAGE ODOR |
| 12-267-174 | 12-584 | 4070 34TH AVENUE | 01092012 | 12 | 267 | 174 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-175 | 12-593 | 18TH AVENUE / N FRONTAGE ROAD | 01102012 | 12 | 267 | 175 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-175 | 12-593 | 18TH AVENUE / N FRONTAGE ROAD | 01102012 | 12 | 267 | 175 WP | Completed Comments | 1 ON THE CITY |
| 12-267-176 | 12-594 | 3350 27TH AVENUE | 01102012 | 12 | 267 | 176 WO | Work Order Comment | 1 SEWAGE LINE STOPPED UP |
| 12-267-176 | 12-594 | 3350 27TH AVENUE | 01102012 | 12 | 267 | 176 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-178 | 12-596 | 4920 SHUMATE ROAD | 01102012 | 12 | 267 | 178 WO | Work Order Comment | 1 SEWAGE LINE STOPPED UP |
| 12-267-178 | 12-596 | 4920 SHUMATE ROAD | 01102012 | 12 | 267 | 178 WP | Completed Comments | 1 ON THE CITY |
| 12-267-179 | 12-605 | BONITA DRIVE (BEHIND CASH ADVANCE) | 01122012 | 12 | 267 | 179 WO | Work Order Comment | 1 REPAIR CAVE IN |
| 12-267-179 | 12-605 | BONITA DRIVE (BEHIND CASH ADVANCE) | 01122012 | 12 | 267 | 179 WP | Completed Comments | 3 LOCATE #11101407100023 |
| 12-267-179 | 12-605 | BONITA DRIVE (BEHIND CASH ADVANCE) | 01122012 | 12 | 267 | 179 WP | Completed Comments | 1 REPAIR 6" SEWER LINE |
| 12-267-180 | 12-606 | 6816 8TH PLACE | 01122012 | 12 | 267 | 180 WO | Work Order Comment | 1 TAKE MANHOLE COVER OFF MANHOLE FOR MAINTENANCE CREW AND |
| 12-267-180 | 12-606 | 6816 8TH PLACE | 01122012 | 12 | 267 | 180 WO | Work Order Comment | 2 POSSIBLE FLUSH |
| 12-267-180 | 12-606 | 6816 8TH PLACE | 01122012 | 12 | 267 | 180 WP | Completed Comments | 1 ON THE CITY |

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|------------|--------|-----------------------------|----------|----|-----|--------|--------------------|--|
| 12-267-187 | 12-615 | 2033 38TH AVENUE | 01122012 | 12 | 267 | 187 WO | Work Order Comment | 1 SEWAGE BACKUP |
| 12-267-187 | 12-615 | 2033 38TH AVENUE | 01122012 | 12 | 267 | 187 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-189 | 12-617 | 2603 41ST AVENUE | 01122012 | 12 | 267 | 189 WO | Work Order Comment | 1 SEWAGE GOING INTO DITCH |
| 12-267-189 | 12-617 | 2603 41ST AVENUE | 01122012 | 12 | 267 | 189 WP | Completed Comments | 1 ON THE CITY |
| 12-267-194 | 12-624 | 4920 SHUMATE ROAD | 01122012 | 12 | 267 | 194 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-200 | 12-633 | HWY 45 N | 01132012 | 12 | 267 | 200 WO | Work Order Comment | 1 SEWAGE RUNNING INTO DITCH |
| 12-267-210 | 12-683 | 301 46TH COURT | 01202012 | 12 | 267 | 210 WO | Work Order Comment | 1 REPAIR CAVE IN |
| 12-267-210 | 12-683 | 301 46TH COURT | 01202012 | 12 | 267 | 210 WO | Work Order Comment | 3 LOCATE #11102714410782 |
| 12-267-210 | 12-683 | 301 46TH COURT | 01202012 | 12 | 267 | 683 WO | Work Order Comment | 1 CHECK MANHOLE - OVERFLOWING |
| 12-267-211 | 12-684 | 4620 5TH AVENUE | 01202012 | 12 | 267 | 683 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-211 | 12-684 | 4620 5TH AVENUE | 01202012 | 12 | 267 | 211 WO | Work Order Comment | 1 REPAIR SEWER LEAK |
| 12-267-211 | 12-684 | 4620 5TH AVENUE | 01202012 | 12 | 267 | 211 WP | Work Order Comment | 3 LOCATE #11102714430788 |
| 12-267-211 | 12-684 | 4620 5TH AVENUE | 01202012 | 12 | 267 | 684 WO | Work Order Comment | 1 DID NOT FIND ANYTHING |
| 12-267-211 | 12-684 | 4620 5TH AVENUE | 01202012 | 12 | 267 | 684 WP | Completed Comments | 1 SEWER PROBLEM (ON THEM) |
| 12-267-212 | 12-685 | 42ND AVENUE / 26TH STREET | 01202012 | 12 | 267 | 685 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-212 | 12-685 | 42ND AVENUE / 26TH STREET | 01202012 | 12 | 267 | 685 WP | Work Order Comment | 1 PROBLEM WITH SEWER LATERAL (ON THEM) |
| 12-267-213 | 12-686 | 2441 37TH AVENUE | 01202012 | 12 | 267 | 686 WO | Completed Comments | 1 ON THE CITY |
| 12-267-213 | 12-686 | 2441 37TH AVENUE | 01202012 | 12 | 267 | 686 WP | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-214 | 12-690 | 2015 31ST STREET | 01232012 | 12 | 267 | 214 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 12-267-214 | 12-690 | 2015 31ST STREET | 01232012 | 12 | 267 | 690 WO | Work Order Comment | 1 UN-STOP SEWER |
| 12-267-214 | 12-690 | 2015 31ST STREET | 01232012 | 12 | 267 | 690 WO | Work Order Comment | 1 SEWER TAP |
| 12-267-214 | 12-690 | 2015 31ST STREET | 01232012 | 12 | 267 | 690 WP | Work Order Comment | 2 LOCATE #12011810100412 |
| 12-267-215 | 12-693 | 5717 MANNING STREET | 01232012 | 12 | 267 | 215 WO | Completed Comments | 1 1-4" SEWER TAPPING SADDLE 1-SEC PF 4" SEWER -O-E |
| 12-267-215 | 12-693 | 5717 MANNING STREET | 01232012 | 12 | 267 | 693 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-215 | 12-693 | 5717 MANNING STREET | 01232012 | 12 | 267 | 693 WP | Work Order Comment | 1 CHECK SEWER LINE |
| 12-267-216 | 12-694 | CASH SAVERS / N FRONTAGE RD | 01232012 | 12 | 267 | 216 WO | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-216 | 12-694 | CASH SAVERS / N FRONTAGE RD | 01232012 | 12 | 267 | 694 WO | Work Order Comment | 1 SEWER ODOR |
| 12-267-216 | 12-694 | CASH SAVERS / N FRONTAGE RD | 01232012 | 12 | 267 | 694 WP | Work Order Comment | 1 FLUSH MANHOLES (2) |
| 12-267-217 | 12-764 | 1630 KEY AVENUE | 01252012 | 12 | 267 | 764 WO | Completed Comments | 1 ON THE CITY |
| 12-267-217 | 12-764 | 1630 KEY AVENUE | 01252012 | 12 | 267 | 764 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-217 | 12-764 | 1630 KEY AVENUE | 01252012 | 12 | 267 | 764 WP | Work Order Comment | 3 LOCATE #12011813290644 |
| 12-267-218 | 12-766 | 800 26TH STREET | 01252012 | 12 | 267 | 766 WO | Completed Comments | 1 USE 1-BUCKET OF PLUG TO REPAIR A SEWER MAIN |
| 12-267-218 | 12-766 | 800 26TH STREET | 01252012 | 12 | 267 | 766 WO | Work Order Comment | 1 SEWER TAP - 4 INCH |
| 12-267-218 | 12-766 | 800 26TH STREET | 01252012 | 12 | 267 | 766 WO | Work Order Comment | 2 LOCATE # 12011813280643 |
| 12-267-218 | 12-766 | 800 26TH STREET | 01252012 | 12 | 267 | 766 WO | Work Order Comment | 3 NAME: TONY BUSH, PLUMBER: DARRYL ROWZEE |
| 12-267-218 | 12-766 | 800 26TH STREET | 01252012 | 12 | 267 | 766 WP | Work Order Comment | 4 SEWER TAP ORDER: 5127 |
| 12-267-219 | 12-767 | 5002 WEST GATE HILLS | 01252012 | 12 | 267 | 767 WO | Completed Comments | 1 SEWER SADDLER TWO BAND'S 1-SEWER PPE 8 FT AND 1-45 BAND 4" |
| 12-267-219 | 12-767 | 5002 WEST GATE HILLS | 01252012 | 12 | 267 | 767 WP | Work Order Comment | 1 CHECK MANHOLE |
| 12-267-220 | 12-768 | CHIP MILL | 01252012 | 12 | 267 | 768 WO | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-221 | 12-769 | 2015 MOSBY RD | 01252012 | 12 | 267 | 769 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-221 | 12-769 | 2015 MOSBY RD | 01252012 | 12 | 267 | 769 WP | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-222 | 12-770 | 1630 KEY AVENUE | 01252012 | 12 | 267 | 770 WO | Completed Comments | 1 ON THE CITY |
| 12-267-222 | 12-770 | 1630 KEY AVENUE | 01252012 | 12 | 267 | 770 WP | Work Order Comment | 1 SMOKE SEWER |
| 12-267-223 | 12-771 | 1132 CLARK RD | 01252012 | 12 | 267 | 771 WO | Completed Comments | 1 SMOKE SEER MAIN FOR LEAK |
| 12-267-223 | 12-771 | 1132 CLARK RD | 01252012 | 12 | 267 | 771 WO | Work Order Comment | 1 SEWER TAP - 4 INCH |
| 12-267-223 | 12-771 | 1132 CLARK RD | 01252012 | 12 | 267 | 771 WO | Work Order Comment | 2 LOCATE #12011908500201 |
| 12-267-223 | 12-771 | 1132 CLARK RD | 01252012 | 12 | 267 | 771 WO | Work Order Comment | 3 NAME: JACK DOUGLAS, PLUMBER: ZANE CHAPMAN |
| 12-267-223 | 12-771 | 1132 CLARK RD | 01252012 | 12 | 267 | 771 WP | Work Order Comment | 4 SEWER TAP ORDER: 5126 |
| 12-267-224 | 12-776 | 1132 CLARK ROAD | 01252012 | 12 | 267 | 224 WO | Completed Comments | 1 MADE SEWER 4" |
| 12-267-224 | 12-776 | 1132 CLARK ROAD | 01252012 | 12 | 267 | 776 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-224 | 12-776 | 1132 CLARK ROAD | 01252012 | 12 | 267 | 776 WP | Work Order Comment | 1 SMOKE SEWER MAIN |
| 12-267-225 | 12-777 | 920 48TH AVENUE | 01252012 | 12 | 267 | 225 WO | Completed Comments | 1 SMOKE SEWER |
| 12-267-225 | 12-777 | 920 48TH AVENUE | 01252012 | 12 | 267 | 777 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-225 | 12-777 | 920 48TH AVENUE | 01252012 | 12 | 267 | 777 WP | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-226 | 12-778 | 107 71ST PLACE | 01252012 | 12 | 267 | 226 WO | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-226 | 12-778 | 107 71ST PLACE | 01252012 | 12 | 267 | 778 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-226 | 12-778 | 107 71ST PLACE | 01252012 | 12 | 267 | 778 WP | Work Order Comment | 1 FLUSH MANHOLE |
| 12-267-227 | 12-780 | 4606 8TH STREET | 01252012 | 12 | 267 | 780 WO | Completed Comments | 1 ON THE CUSTOMER |
| | | | | | | | Work Order Comment | 1 SEWER SMELL IN DITCH |

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|------------|--------|-------------------------------------|----------|----|-----|--------|--------------------|--|
| 12-267-227 | 12-780 | 4606 8TH STREET | 01252012 | 12 | 267 | 780 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-228 | 12-781 | 2446 37TH AVENUE | 01262012 | 12 | 267 | 781 WO | Work Order Comment | 1 DRESS UP |
| 12-267-229 | 12-783 | 346 60TH AVENUE | 01262012 | 12 | 267 | 783 WO | Work Order Comment | 1 FLUSH LINE |
| 12-267-229 | 12-783 | 346 60TH AVENUE | 01262012 | 12 | 267 | 783 WP | Completed Comments | 1 ON THE CITY |
| 12-267-230 | 12-785 | 40TH STREET / KINGS ROAD & 40TH AVE | 01262012 | 12 | 267 | 785 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-230 | 12-785 | 40TH STREET / KINGS ROAD & 40TH AVE | 01262012 | 12 | 267 | 785 WP | Completed Comments | 1 ON THE CITY |
| 12-267-231 | 12-786 | 3812 44TH AVENUE | 01262012 | 12 | 267 | 786 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-231 | 12-786 | 3812 44TH AVENUE | 01262012 | 12 | 267 | 786 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-232 | 12-795 | 40TH AVENUE / 26TH STREET | 01272012 | 12 | 267 | 795 WO | Work Order Comment | 1 WATER PUSHED UP MANHOLE COVER |
| 12-267-233 | 12-798 | 5TH STREET / 29TH AVE UNDER BRIDGE | 01272012 | 12 | 267 | 798 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-234 | 12-799 | 51ST AVENUE / 2ND STREET | 01272012 | 12 | 267 | 799 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-235 | 12-800 | 29TH AVENUE / 15TH STREET | 01272012 | 12 | 267 | 800 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-236 | 12-801 | 5310 OVERBROOK LANE | 01272012 | 12 | 267 | 801 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-236 | 12-801 | 5310 OVERBROOK LANE | 01272012 | 12 | 267 | 801 WP | Completed Comments | 1 ON THE CITY |
| 12-267-237 | 12-802 | 29TH AVENUE / 35TH STREET | 01272012 | 12 | 267 | 237 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-237 | 12-802 | 29TH AVENUE / 35TH STREET | 01272012 | 12 | 267 | 237 WP | Completed Comments | 1 ON THE CITY |
| 12-267-237 | 12-802 | 29TH AVENUE / 35TH STREET | 01272012 | 12 | 267 | 802 WO | Work Order Comment | 1 CHECK MANHOLE (NOTHING FOUND) |
| 12-267-238 | 12-813 | 900 23RD AVENUE (SAXON FLORIST) | 01302012 | 12 | 267 | 813 WO | Work Order Comment | 1 FLUSH MANHOLE (LINE OPEN AND RUNNING) |
| 12-267-239 | 12-814 | 3109 GRANDVIEW AVENUE | 01302012 | 12 | 267 | 814 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-240 | 12-821 | BRAGG AVENUE / ST ANDREWS STREET | 01312012 | 12 | 267 | 821 WO | Work Order Comment | 1 CAVE IN (EMERGENCY 1/28/12) |
| 12-267-240 | 12-821 | BRAGG AVENUE / ST ANDREWS STREET | 01312012 | 12 | 267 | 821 WO | Work Order Comment | 3 LOCATE #12012815320028 (EMERGENCY) |
| 12-267-240 | 12-821 | BRAGG AVENUE / ST ANDREWS STREET | 01312012 | 12 | 267 | 821 WP | Completed Comments | 1 REPLACE 8" SEWER LINE 8" PIPE 8" CLAY TO PVC 8" PVC TO PVC |
| 12-267-241 | 12-823 | 4704 11TH PLACE | 02012012 | 12 | 267 | 823 WO | Work Order Comment | 1 SEWER BACKUP IN BASEMENT |
| 12-267-241 | 12-823 | 4704 11TH PLACE | 02012012 | 12 | 267 | 823 WP | Completed Comments | 1 ON THE CITY |
| 12-267-242 | 12-824 | 301 63RD PLACE | 02012012 | 12 | 267 | 824 WO | Work Order Comment | 1 MANHOLE OVERFLOWING (ON THEM) |
| 12-267-242 | 12-824 | 301 63RD PLACE | 02012012 | 12 | 267 | 824 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-243 | 12-825 | 3109 GRANDVIEW AVENUE | 02012012 | 12 | 267 | 825 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-244 | 12-829 | 3516 21ST STREET | 02022012 | 12 | 267 | 829 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-244 | 12-829 | 3516 21ST STREET | 02022012 | 12 | 267 | 829 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-245 | 12-830 | 3810 NORTH HILLS STREET | 02022012 | 12 | 267 | 830 WO | Work Order Comment | 1 FLUSH MANHOLE |
| 12-267-245 | 12-830 | 3810 NORTH HILLS STREET | 02022012 | 12 | 267 | 830 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 246 WO | Work Order Comment | 1 SEWER TAP - TAP SIZE 4 INCH |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 246 WO | Work Order Comment | 2 W C WINSTEAD HOMEOWNER / JAMES HURTT PLUMBER |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 246 WO | Work Order Comment | 3 LOCATE #1110115260902 |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 246 WO | Work Order Comment | 4 SEWER TAP ORDER 5124 |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 246 WP | Completed Comments | 1 2 BAGS OF CEMENT 42' SEWER PIPE 4" |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 833 WO | Work Order Comment | 1 DRESS UP |
| 12-267-246 | 12-833 | BRAGG AVENUE / ST ANDREWS STREET | 02032012 | 12 | 267 | 836 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-247 | 12-836 | 4309 33RD AVENUE | 02032012 | 12 | 267 | 837 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-248 | 12-837 | 1803 39TH PLACE | 02032012 | 12 | 267 | 837 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-249 | 12-838 | 3109 GRANDVIEW AVENUE | 02032012 | 12 | 267 | 838 WO | Work Order Comment | 1 10' 8 SEWER PIPE 2-8" C/PVC MISSION COUPLING |
| 12-267-249 | 12-838 | 3109 GRANDVIEW AVENUE | 02032012 | 12 | 267 | 838 WP | Completed Comments | 1 SEWAGE RUNNING INTO CREEK |
| 12-267-250 | 12-839 | 5523 CHEROKEE ROAD | 02032012 | 12 | 267 | 839 WO | Work Order Comment | 1 SEWER SMELL |
| 12-267-251 | 12-840 | 2423 40TH AVENUE | 02032012 | 12 | 267 | 840 WO | Work Order Comment | 1 SMOKE SEWER |
| 12-267-252 | 12-841 | 7200 CHANDLER ROAD | 02032012 | 12 | 267 | 252 WO | Work Order Comment | 1 SMOKE SEWER LINE |
| 12-267-252 | 12-841 | 7200 CHANDLER ROAD | 02032012 | 12 | 267 | 252 WP | Completed Comments | 1 MANHOLE COVER MISSING |
| 12-267-252 | 12-841 | 7200 CHANDLER ROAD | 02032012 | 12 | 267 | 841 WO | Work Order Comment | 1 VOID |
| 12-267-252 | 12-841 | 7200 CHANDLER ROAD | 02032012 | 12 | 267 | 841 WP | Completed Comments | 1 CHECK SEWER LINE. COMMODOE OVERFLOWING. |
| 12-267-253 | 12-842 | 33RD AVENUE / 33RD PLACE | 02032012 | 12 | 267 | 253 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-253 | 12-842 | 33RD AVENUE / 33RD PLACE | 02032012 | 12 | 267 | 253 WP | Completed Comments | 1 SEWER LINE REPAIR |
| 12-267-253 | 12-842 | 33RD AVENUE / 33RD PLACE | 02032012 | 12 | 267 | 842 WO | Work Order Comment | 1 6-4" SEWER PIPE |
| 12-267-253 | 12-842 | 33RD AVENUE / 33RD PLACE | 02032012 | 12 | 267 | 842 WP | Completed Comments | 2 1-4" C/PVC MISSION COUPLING |
| 12-267-253 | 12-842 | 33RD AVENUE / 33RD PLACE | 02032012 | 12 | 267 | 842 WP | Completed Comments | 1 SEWER PROBLEM |
| 12-267-254 | 12-843 | 4309 33RD AVENUE | 02032012 | 12 | 267 | 843 WO | Work Order Comment | 1 ON THE CITY |
| 12-267-254 | 12-843 | 4309 33RD AVENUE | 02032012 | 12 | 267 | 843 WP | Completed Comments | 1 CHECK MANHOLE |
| 12-267-255 | 12-844 | 600 NORTH FRONTAGE ROAD | 02032012 | 12 | 267 | 844 WO | Work Order Comment | 1 HOLE NEEDS TO BE CLOSED WHERE SEWER TAP WAS MADE |
| 12-267-256 | 12-850 | 1132 CLARK ROAD | 02062012 | 12 | 267 | 850 WO | Work Order Comment | 1 PUT DIRT IN WATER CUT |
| 12-267-256 | 12-850 | 1132 CLARK ROAD | 02062012 | 12 | 267 | 850 WP | Completed Comments | 1 ROOTS IN MANHOLE |
| 12-267-257 | 12-869 | 5828 18TH PLACE | 02082012 | 12 | 267 | 869 WO | Work Order Comment | 1 ON THEM |
| 12-267-257 | 12-869 | 5828 18TH PLACE | 02082012 | 12 | 267 | 869 WP | Completed Comments | |

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|------------|---------|-------------------------------------|----------|----|-----|---------|--------------------|---|
| 12-267-258 | 12-872 | 2014 HWY 45 NORTH (WINN DIXIE) | 02082012 | 12 | 267 | 872 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 12-267-258 | 12-872 | 2014 HWY 45 NORTH (WINN DIXIE) | 02082012 | 12 | 267 | 872 WP | Completed Comments | 1 ON THE CITY |
| 12-267-259 | 12-873 | 1902 8TH AVENUE | 02082012 | 12 | 267 | 259 WO | Work Order Comment | 1 WATER GUSHING OUT OF MANHOLE |
| 12-267-259 | 12-873 | 1902 8TH AVENUE | 02082012 | 12 | 267 | 259 WP | Completed Comments | 1 ON THE CITY |
| 12-267-259 | 12-873 | 1902 8TH AVENUE | 02082012 | 12 | 267 | 873 WO | Work Order Comment | 1 SEWER PROBLEM (ON THEM) |
| 12-267-260 | 12-876 | 410 WINDOVER CIRCLE | 02082012 | 12 | 267 | 873 WP | Completed Comments | 1 ON THEM |
| 12-267-261 | 12-878 | 410 WINDOVER CIRCLE | 02082012 | 12 | 267 | 876 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-262 | 12-879 | TOMMY WEBB DRIVE | 02092012 | 12 | 267 | 878 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-262 | 12-879 | TOMMY WEBB DRIVE | 02092012 | 12 | 267 | 262 WO | Work Order Comment | 1 WATER COMING UP OUT OF MANHOLE |
| 12-267-262 | 12-879 | TOMMY WEBB DRIVE | 02092012 | 12 | 267 | 262 WP | Completed Comments | 1 ON THE CITY |
| 12-267-263 | 12-880 | HWY 39 & 45 BYPASS | 02092012 | 12 | 267 | 879 WO | Work Order Comment | 1 CITY CREW HIT LATERAL |
| 12-267-264 | 12-888 | 4715 KINGS ROAD | 02102012 | 12 | 267 | 880 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 12-267-264 | 12-888 | 4715 KINGS ROAD | 02102012 | 12 | 267 | 888 WO | Work Order Comment | 1 SEWER ODOR (ON CUSTOMER) |
| 12-267-265 | 12-890 | 7200 CHANDLER ROAD | 02132012 | 12 | 267 | 888 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-265 | 12-890 | 7200 CHANDLER ROAD | 02132012 | 12 | 267 | 265 WO | Work Order Comment | 1 SEWAGE AND BLACK WATER COMING FROM GALLAGHER CREEK |
| 12-267-265 | 12-890 | 7200 CHANDLER ROAD | 02132012 | 12 | 267 | 265 WP | Completed Comments | 1 ON THE CITY |
| 12-267-265 | 12-890 | 7200 CHANDLER ROAD | 02132012 | 12 | 267 | 890 WO | Work Order Comment | 1 MANHOLE COVER MISSING |
| 12-267-266 | 12-891 | 3220 GRANDVIEW AVENUE | 02132012 | 12 | 267 | 890 WP | Completed Comments | 1 REPAIR MANHOLE CASKETING |
| 12-267-266 | 12-891 | 3220 GRANDVIEW AVENUE | 02132012 | 12 | 267 | 266 WO | Work Order Comment | 1 SEWAGE SMELL IN DITCH |
| 12-267-266 | 12-891 | 3220 GRANDVIEW AVENUE | 02132012 | 12 | 267 | 266 WP | Completed Comments | 1 ON THE CITY |
| 12-267-266 | 12-891 | 3220 GRANDVIEW AVENUE | 02132012 | 12 | 267 | 891 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-267 | 12-892 | 4320 36TH AVENUE | 02132012 | 12 | 267 | 891 WP | Completed Comments | 1 ON THE CUSTOMER FLUSH LINE |
| 12-267-267 | 12-892 | 4320 36TH AVENUE | 02132012 | 12 | 267 | 892 WO | Work Order Comment | 1 ROOTS IN MANHOLE |
| 12-267-268 | 12-893 | LAUDERDALE COUNTY COURTHOUSE | 02132012 | 12 | 267 | 892 WP | Completed Comments | 1 ON THE CITY |
| 12-267-268 | 12-893 | LAUDERDALE COUNTY COURTHOUSE | 02132012 | 12 | 267 | 893 WO | Work Order Comment | 1 SEWER PROBLEM |
| 12-267-269 | 12-894 | 4411 39TH PLACE | 02132012 | 12 | 267 | 893 WP | Completed Comments | 1 CLEAN STREET |
| 12-267-269 | 12-894 | 4411 39TH PLACE | 02132012 | 12 | 267 | 894 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-270 | 12-904 | 2035 38TH AVENUE | 02142012 | 12 | 267 | 894 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-270 | 12-904 | 2035 38TH AVENUE | 02142012 | 12 | 267 | 904 WO | Work Order Comment | 1 FLUSH LINES (ON CUSTOMER) |
| 12-267-271 | 12-905 | 4508 9TH AVENUE | 02142012 | 12 | 267 | 904 WP | Completed Comments | 1 FLUSH LINE |
| 12-267-271 | 12-905 | 4508 9TH AVENUE | 02142012 | 12 | 267 | 905 WO | Work Order Comment | 1 FLUSH LINES (ON CUSTOMER) |
| 12-267-272 | 12-906 | 4912 HOOPER STREET | 02142012 | 12 | 267 | 905 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-272 | 12-906 | 4912 HOOPER STREET | 02142012 | 12 | 267 | 906 WO | Work Order Comment | 1 FLUSH LINES |
| 12-267-273 | 12-956 | 305 45TH AVENUE | 02162012 | 12 | 267 | 906 WP | Completed Comments | 1 ON THE CUSTOMER FLUSH THE LINE |
| 12-267-274 | 12-987 | 410 WINDOVER CIRCLE | 02242012 | 12 | 267 | 956 WO | Work Order Comment | 1 WATER LEAK (ON CUSTOMER) |
| 12-267-274 | 12-987 | 410 WINDOVER CIRCLE | 02242012 | 12 | 267 | 987 WO | Work Order Comment | 1 SEWER BACKING UP |
| 12-267-275 | 12-989 | 346 60TH AVENUE | 02242012 | 12 | 267 | 987 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-275 | 12-989 | 346 60TH AVENUE | 02242012 | 12 | 267 | 989 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 12-267-276 | 12-991 | 38TH PLACE / HOOPER | 02242012 | 12 | 267 | 989 WP | Completed Comments | 1 REPAIR 4" SEWER LINE |
| 12-267-276 | 12-991 | 38TH PLACE / HOOPER | 02242012 | 12 | 267 | 991 WO | Work Order Comment | 1 SEWER STOPPED UP (ON CUSTOMER) |
| 12-267-277 | 12-992 | COLLEGE DRIVE / EAST MISS STATE HOS | 02242012 | 12 | 267 | 991 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-277 | 12-992 | COLLEGE DRIVE / EAST MISS STATE HOS | 02242012 | 12 | 267 | 992 WO | Work Order Comment | 1 MANHOLE OVERFLOWING (ON US) |
| 12-267-278 | 12-993 | 558 65TH AVENUE | 02242012 | 12 | 267 | 992 WP | Completed Comments | 1 ON THE CITY |
| 12-267-278 | 12-993 | 558 65TH AVENUE | 02242012 | 12 | 267 | 993 WO | Work Order Comment | 1 SEWER COMING UP IN BATHTUB AND TOILET (ON CUSTOMER) |
| 12-267-279 | 12-994 | OLD 8TH STREET ROAD / 59TH AVENUE | 02242012 | 12 | 267 | 993 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-279 | 12-994 | OLD 8TH STREET ROAD / 59TH AVENUE | 02242012 | 12 | 267 | 994 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-280 | 12-995 | 70TH PLACE NEAR LIFT STATION | 02242012 | 12 | 267 | 994 WP | Completed Comments | 1 ON THE CITY |
| 12-267-280 | 12-995 | 70TH PLACE NEAR LIFT STATION | 02242012 | 12 | 267 | 995 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 12-267-281 | 12-996 | 2135 12TH AVENUE | 02242012 | 12 | 267 | 995 WP | Completed Comments | 1 ON THE CITY |
| 12-267-281 | 12-996 | 2135 12TH AVENUE | 02242012 | 12 | 267 | 996 WO | Work Order Comment | 1 SEWAGE BACKING UP (ON CUSTOMER) |
| 12-267-282 | 12-997 | 810 22ND AVENUE (MERIDIAN STAR) | 02242012 | 12 | 267 | 996 WP | Completed Comments | 1 ON THE CUSTOMER |
| 12-267-282 | 12-997 | 810 22ND AVENUE (MERIDIAN STAR) | 02242012 | 12 | 267 | 997 WO | Work Order Comment | 1 DRAIN NEEDS BLOWING OUT |
| 12-267-283 | 12-999 | 65TH AVENUE LIFT STATION | 02242012 | 12 | 267 | 997 WP | Completed Comments | 1 ON THE CITY |
| 12-267-283 | 12-999 | 65TH AVENUE LIFT STATION | 02242012 | 12 | 267 | 999 WO | Work Order Comment | 1 ASSISTED 67-82 TO PULL PUMP |
| 13-267-224 | 13-1004 | 29TH AVE/ST LUKE ST | 03182013 | 13 | 267 | 999 WP | Completed Comments | 1 PULLED #1 PUMP |
| 13-267-224 | 13-1004 | 29TH AVE/ST LUKE ST | 03182013 | 13 | 267 | 224 WO | Work Order Comment | 1 SEWER PROBLEM(RUNNING IN YARD) |
| 13-267-224 | 13-1004 | 29TH AVE/ST LUKE ST | 03182013 | 13 | 267 | 224 WP | Completed Comments | 1 PROBLEM ON THE CUSTOMER |
| 13-267-224 | 13-1004 | 29TH AVE/ST LUKE ST | 03182013 | 13 | 267 | 1004 WO | Work Order Comment | 1 SEWER STOPPED UP |
| 13-267-224 | 13-1004 | 29TH AVE/ST LUKE ST | 03182013 | 13 | 267 | 1004 WP | Completed Comments | 1 ON US |

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| 13-267-225 | 13-1005 | 34TH ST/10TH AVE | 03182013 | 13 | 267 | 225 WO | Work Order Comment | 1 SEWER DRAINAGE COMING FROM DRAIN |
| 13-267-225 | 13-1005 | 34TH ST/10TH AVE | 03182013 | 13 | 267 | 225 WP | Completed Comments | 1 USE 5 FT AND 7 INCH OF 6 INCH PIPES TO 6' COUPLING |
| 13-267-225 | 13-1005 | 34TH ST/10TH AVE | 03182013 | 13 | 267 | 1005 WO | Work Order Comment | 1 SEWAGE LEAKING IN DITCH |
| 13-267-225 | 13-1005 | 34TH ST/10TH AVE | 03182013 | 13 | 267 | 1005 WP | Completed Comments | 1 ON US |
| 13-267-226 | 13-1006 | 5601 1ST STREET | 03182013 | 13 | 267 | 226 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-226 | 13-1006 | 5601 1ST STREET | 03182013 | 13 | 267 | 226 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-226 | 13-1006 | 5601 1ST STREET | 03182013 | 13 | 267 | 1006 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-226 | 13-1006 | 5601 1ST STREET | 03182013 | 13 | 267 | 1006 WP | Completed Comments | 1 FLUSHED MANHOLE TO UNSTOP LINE |
| 13-267-227 | 13-1007 | 5004 1ST STREET | 03182013 | 13 | 267 | 227 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-227 | 13-1007 | 5004 1ST STREET | 03182013 | 13 | 267 | 227 WP | Completed Comments | 1 ON CUSTOMER |
| 13-267-227 | 13-1007 | 5004 1ST STREET | 03182013 | 13 | 267 | 1007 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-227 | 13-1007 | 5004 1ST STREET | 03182013 | 13 | 267 | 1007 WP | Completed Comments | 1 ON US |
| 13-267-228 | 13-1021 | CHIP PICKERING RD/FRED CLAYTON RD | 03192013 | 13 | 267 | 228 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-228 | 13-1021 | CHIP PICKERING RD/FRED CLAYTON RD | 03192013 | 13 | 267 | 1021 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-228 | 13-1021 | CHIP PICKERING RD/FRED CLAYTON RD | 03192013 | 13 | 267 | 1021 WO | Work Order Comment | 3 13031908230172 |
| 13-267-229 | 13-1025 | 401 41ST AVE | 03192013 | 13 | 267 | 229 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-229 | 13-1025 | 401 41ST AVE | 03192013 | 13 | 267 | 229 WP | Completed Comments | 1 ON CUSTOMER |
| 13-267-229 | 13-1025 | 401 41ST AVE | 03192013 | 13 | 267 | 1025 WO | Work Order Comment | 1 SINK HOLE |
| 13-267-229 | 13-1025 | 401 41ST AVE | 03192013 | 13 | 267 | 1025 WO | Work Order Comment | 3 13031913330716 |
| 13-267-229 | 13-1025 | 401 41ST AVE | 03192013 | 13 | 267 | 1025 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-230 | 13-1042 | 5215 ASH AVE | 03202013 | 13 | 267 | 1042 WO | Work Order Comment | 1 SEWER PROBLEMS/LINE STOPPED UP |
| 13-267-230 | 13-1042 | 5215 ASH AVE | 03202013 | 13 | 267 | 1042 WP | Completed Comments | 1 FLUSHED LINE/PUT LIME DOWN |
| 13-267-231 | 13-1044 | 20TH ST/33RD AVE | 03212013 | 13 | 267 | 231 WO | Work Order Comment | 1 SEWER BACKUP - ON CUSTOMER |
| 13-267-231 | 13-1044 | 20TH ST/33RD AVE | 03212013 | 13 | 267 | 1044 WO | Work Order Comment | 1 REPLACE MANHOLE CASTING LID |
| 13-267-232 | 13-1053 | 2714 45TH ST | 03212013 | 13 | 267 | 232 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-232 | 13-1053 | 2714 45TH ST | 03212013 | 13 | 267 | 1053 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-232 | 13-1053 | 2714 45TH ST | 03212013 | 13 | 267 | 1053 WP | Completed Comments | 1 ON US |
| 13-267-233 | 13-1058 | 1923 15TH AVE | 03222013 | 13 | 267 | 233 WO | Work Order Comment | 1 SSEWER BACKUP BETWEEN THE PROPERTY |
| 13-267-233 | 13-1058 | 1923 15TH AVE | 03222013 | 13 | 267 | 233 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-233 | 13-1058 | 1923 15TH AVE | 03222013 | 13 | 267 | 1058 WO | Work Order Comment | 1 SEWER IS OPEN AND CLEAR |
| 13-267-233 | 13-1058 | 1923 15TH AVE | 03222013 | 13 | 267 | 1058 WP | Completed Comments | 1 SEWER PROBLEM |
| 13-267-234 | 13-1068 | 2228 20TH AVE | 03252013 | 13 | 267 | 234 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-234 | 13-1068 | 2228 20TH AVE | 03252013 | 13 | 267 | 1068 WO | Work Order Comment | 3 13032508590212 |
| 13-267-234 | 13-1068 | 2228 20TH AVE | 03252013 | 13 | 267 | 1068 WP | Completed Comments | 1 PUT IN A 4" SEWER TAP |
| 13-267-234 | 13-1068 | 2228 20TH AVE | 03252013 | 13 | 267 | 1068 WP | Completed Comments | 2 4"X 13' SEWER PIPE |
| 13-267-235 | 13-1070 | 2029 27TH AVE | 03252013 | 13 | 267 | 235 WO | Work Order Comment | 1 SEWER PROBLEM(MANHOLE LEAKING IN PRIVATE LAKE) |
| 13-267-235 | 13-1070 | 2029 27TH AVE | 03252013 | 13 | 267 | 235 WP | Completed Comments | 1 WILL CONTACT THIS JOB |
| 13-267-235 | 13-1070 | 2029 27TH AVE | 03252013 | 13 | 267 | 1070 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-235 | 13-1070 | 2029 27TH AVE | 03252013 | 13 | 267 | 1070 WP | Completed Comments | 1 ON US |
| 13-267-236 | 13-1071 | 4815 HICKORY HILLS CIRCLE | 03252013 | 13 | 267 | 1071 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-236 | 13-1071 | 4815 HICKORY HILLS CIRCLE | 03252013 | 13 | 267 | 1071 WP | Completed Comments | 1 MANHOLE WAS STOPPED UP/ FLUSHED LINE |
| 13-267-237 | 13-1081 | 1413 23RD AVE/COLONIAL APTS | 03262013 | 13 | 267 | 1081 WO | Work Order Comment | 1 RAW SEWAGE LEAKING |
| 13-267-237 | 13-1081 | 1413 23RD AVE/COLONIAL APTS | 03262013 | 13 | 267 | 1081 WP | Completed Comments | 1 ON US |
| 13-267-238 | 13-1084 | 5243 33RD PLACE | 03262013 | 13 | 267 | 1084 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-238 | 13-1084 | 5243 33RD PLACE | 03262013 | 13 | 267 | 1084 WP | Completed Comments | 1 ON THE CUST |
| 13-267-239 | 13-1085 | 909 45TH AVE | 03262013 | 13 | 267 | 1085 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-239 | 13-1085 | 909 45TH AVE | 03262013 | 13 | 267 | 1085 WP | Completed Comments | 1 ON THE CUST |
| 13-267-240 | 13-1087 | 20TH ST/28TH AVE | 03272013 | 13 | 267 | 1087 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-240 | 13-1087 | 20TH ST/28TH AVE | 03272013 | 13 | 267 | 1087 WP | Completed Comments | 1 ON THE CUST |
| 13-267-241 | 13-1089 | 6412 OAKLAND FOREST CT | 03272013 | 13 | 267 | 1089 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-241 | 13-1089 | 6412 OAKLAND FOREST CT | 03272013 | 13 | 267 | 1089 WP | Completed Comments | 1 ON THE CUST |
| 13-267-242 | 13-1096 | 3607 40TH ST | 03272013 | 13 | 267 | 1096 WO | Work Order Comment | 1 SEWER ODOR/SEWER PROBLEM |
| 13-267-242 | 13-1096 | 3607 40TH ST | 03272013 | 13 | 267 | 1096 WP | Completed Comments | 1 FLUSHED SEWER LINE |
| 13-267-243 | 13-1099 | 1209 29TH AVE | 03282013 | 13 | 267 | 1099 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-243 | 13-1099 | 1209 29TH AVE | 03282013 | 13 | 267 | 1099 WP | Completed Comments | 1 ON THE CUST |
| 13-267-244 | 13-1100 | 1724A 23RD AVE | 03282013 | 13 | 267 | 1100 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-244 | 13-1100 | 1724A 23RD AVE | 03282013 | 13 | 267 | 1100 WO | Work Order Comment | 3 13032809310247 |
| 13-267-244 | 13-1100 | 1724A 23RD AVE | 03282013 | 13 | 267 | 1100 WP | Completed Comments | 1 26'-4" SEWER PIPE 4" TAP SADDLE |
| 13-267-245 | 13-1103 | 525 LINDLEY RD | 03282013 | 13 | 267 | 1103 WO | Work Order Comment | 1 SEWER BACKUP |

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|------------|---------|---------------------------------|----------|----|-----|---------|--------------------|---|
| 13-267-245 | 13-1103 | 525 LINDLEY RD | 03282013 | 13 | 267 | 1103 WP | Completed Comments | 1 SEWER LINE STOPPED UP/FLUSHED LINE |
| 13-267-246 | 13-1106 | 525 LINDLEY RD | 03292013 | 13 | 267 | 1106 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-246 | 13-1106 | 525 LINDLEY RD | 03292013 | 13 | 267 | 1106 WP | Completed Comments | 1 NO PROB FOUND/GROUND WATER |
| 13-267-247 | 13-1111 | HWY 39 BYPASS/AARON'S FURNITURE | 03292013 | 13 | 267 | 1111 WO | Work Order Comment | 1 REPLACE MANHOLE LIDS |
| 13-267-247 | 13-1111 | HWY 39 BYPASS/AARON'S FURNITURE | 03292013 | 13 | 267 | 1111 WP | Completed Comments | 1 REPLACED LIDS |
| 13-267-248 | 13-1118 | 20TH AVE/23RD ST | 04012013 | 13 | 267 | 1118 WO | Work Order Comment | 1 FLUSH SEWER LINE |
| 13-267-248 | 13-1118 | 20TH AVE/23RD ST | 04012013 | 13 | 267 | 1118 WP | Completed Comments | 1 ON US/FLUSHED MAIN |
| 13-267-249 | 13-1119 | 1011 MLK DR | 04012013 | 13 | 267 | 1119 WO | Work Order Comment | 1 FLUSH MANHOLE |
| 13-267-249 | 13-1119 | 1011 MLK DR | 04012013 | 13 | 267 | 1119 WP | Completed Comments | 1 ON THE CUST |
| 13-267-250 | 13-1120 | 59TH AVE/ARTHUR AVE | 04012013 | 13 | 267 | 1120 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-250 | 13-1120 | 59TH AVE/ARTHUR AVE | 04012013 | 13 | 267 | 1120 WP | Completed Comments | 1 NO PROB FOUND/GROUND WATER PRESENT |
| 13-267-251 | 13-1121 | OLD HWY 80 WEST/LOVER'S LANE | 04012013 | 13 | 267 | 1121 WO | Work Order Comment | 1 ASSISTED STREET DIV |
| 13-267-251 | 13-1121 | OLD HWY 80 WEST/LOVER'S LANE | 04012013 | 13 | 267 | 1121 WP | Completed Comments | 1 ON THE CUST |
| 13-267-252 | 13-1122 | 411 WINDOVER CIRCLE | 04012013 | 13 | 267 | 1122 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-252 | 13-1122 | 411 WINDOVER CIRCLE | 04012013 | 13 | 267 | 1122 WP | Completed Comments | 1 ON US |
| 13-267-253 | 13-1123 | 3705 ROYAL RD | 04022013 | 13 | 267 | 1123 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-253 | 13-1123 | 3705 ROYAL RD | 04022013 | 13 | 267 | 1123 WP | Completed Comments | 1 SEWER LINE STOPPED UP/FLUSHED LINE |
| 13-267-254 | 13-1134 | 2916 DAVIS ST | 04022013 | 13 | 267 | 1134 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-254 | 13-1134 | 2916 DAVIS ST | 04022013 | 13 | 267 | 1134 WP | Completed Comments | 1 ON THE CUST |
| 13-267-255 | 13-1137 | 2433 43RD AVE | 04022013 | 13 | 267 | 1137 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-255 | 13-1137 | 2433 43RD AVE | 04022013 | 13 | 267 | 1137 WP | Completed Comments | 1 ON THE CUST |
| 13-267-256 | 13-1144 | 2001 24TH ST | 04032013 | 13 | 267 | 256 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-256 | 13-1144 | 2001 24TH ST | 04032013 | 13 | 267 | 256 WP | Completed Comments | 3 LOCATE 12120709380137 |
| 13-267-256 | 13-1144 | 2001 24TH ST | 04032013 | 13 | 267 | 1144 WO | Work Order Comment | 1 NO PROBLEM FOUND |
| 13-267-256 | 13-1144 | 2001 24TH ST | 04032013 | 13 | 267 | 1144 WP | Completed Comments | 1 ASSISTING STREET DIV |
| 13-267-257 | 13-1146 | 823 69TH AVE | 04032013 | 13 | 267 | 1146 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-257 | 13-1146 | 823 69TH AVE | 04032013 | 13 | 267 | 1146 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-258 | 13-1147 | 3916 36TH AVE | 04032013 | 13 | 267 | 1147 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-258 | 13-1147 | 3916 36TH AVE | 04032013 | 13 | 267 | 1147 WP | Completed Comments | 1 SEWAGE RUNNING IN DITCH |
| 13-267-259 | 13-1149 | 1900 6TH ST | 04032013 | 13 | 267 | 1149 WO | Work Order Comment | 1 ON US |
| 13-267-259 | 13-1149 | 1900 6TH ST | 04032013 | 13 | 267 | 1149 WP | Completed Comments | 1 RUNNING SEWAGE |
| 13-267-260 | 13-1152 | 5226 16TH AVE | 04032013 | 13 | 267 | 1152 WO | Work Order Comment | 1 ASSISTED STREET DIV |
| 13-267-260 | 13-1152 | 5226 16TH AVE | 04032013 | 13 | 267 | 1152 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 13-267-261 | 13-1159 | 3838 35TH AVE | 04042013 | 13 | 267 | 1159 WO | Work Order Comment | 1 ON US |
| 13-267-261 | 13-1159 | 3838 35TH AVE | 04042013 | 13 | 267 | 1159 WP | Completed Comments | 1 SEWAGE IN DITCH |
| 13-267-262 | 13-1160 | 16TH AVE/52ND ST | 04042013 | 13 | 267 | 262 WO | Work Order Comment | 1 ON US |
| 13-267-262 | 13-1160 | 16TH AVE/52ND ST | 04042013 | 13 | 267 | 262 WO | Work Order Comment | 1 CAVE-IN |
| 13-267-262 | 13-1160 | 16TH AVE/52ND ST | 04042013 | 13 | 267 | 262 WP | Completed Comments | 3 LOCATE 12121116080820 |
| 13-267-262 | 13-1160 | 16TH AVE/52ND ST | 04042013 | 13 | 267 | 1160 WO | Work Order Comment | 1 PLUGGED OLD LATERAL/CAVE-IN |
| 13-267-262 | 13-1160 | 16TH AVE/52ND ST | 04042013 | 13 | 267 | 1160 WP | Completed Comments | 1 SEWER STOPPED UP |
| 13-267-263 | 13-1161 | LAKEVIEW GOLF COURSE | 04042013 | 13 | 267 | 1161 WO | Work Order Comment | 1 ON US/FLUSHED MAIN LINE |
| 13-267-263 | 13-1161 | LAKEVIEW GOLF COURSE | 04042013 | 13 | 267 | 1161 WP | Completed Comments | 1 ASSIST IN PRIMING THEIR PUMPS |
| 13-267-264 | 13-1163 | 22ND AVE/SANDERS GAS | 04042013 | 13 | 267 | 1163 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-264 | 13-1163 | 22ND AVE/SANDERS GAS | 04042013 | 13 | 267 | 1163 WP | Completed Comments | 1 ASSIST STREET DIV |
| 13-267-265 | 13-1164 | 6816 8TH PLACE | 04042013 | 13 | 267 | 1164 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-266 | 13-1169 | 2211 34TH AVE | 04052013 | 13 | 267 | 1169 WO | Work Order Comment | 1 CHECK MANHOLE |
| 13-267-266 | 13-1169 | 2211 34TH AVE | 04052013 | 13 | 267 | 1169 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-267 | 13-1174 | 2460 4TH STREET | 04052013 | 13 | 267 | 1174 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-267 | 13-1174 | 2460 4TH STREET | 04052013 | 13 | 267 | 1174 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-268 | 13-1179 | 3312 HIGHLAND AVE | 04082013 | 13 | 267 | 1179 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-268 | 13-1179 | 3312 HIGHLAND AVE | 04082013 | 13 | 267 | 1179 WP | Completed Comments | 1 SMOKE SEWER |
| 13-267-269 | 13-1180 | 5904 2ND ST | 04082013 | 13 | 267 | 269 WO | Work Order Comment | 1 REPAIRED A 6" SEWER LATERAL/ 2 - 13" PVC PIPE/2 6" COUPLING |
| 13-267-269 | 13-1180 | 5904 2ND ST | 04082013 | 13 | 267 | 269 WO | Work Order Comment | 1 CAVE IN |
| 13-267-269 | 13-1180 | 5904 2ND ST | 04082013 | 13 | 267 | 269 WP | Completed Comments | 3 12121316080672 |
| 13-267-269 | 13-1180 | 5904 2ND ST | 04082013 | 13 | 267 | 1180 WO | Work Order Comment | 1 CAVE-IN/ PUT CONCRETE AND DIRT IN CAVE-IN |
| 13-267-269 | 13-1180 | 5904 2ND ST | 04082013 | 13 | 267 | 1180 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-270 | 13-1190 | 25TH ST/23RD-24TH AVE | 04092013 | 13 | 267 | 1190 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-270 | 13-1190 | 25TH ST/23RD-24TH AVE | 04092013 | 13 | 267 | 1190 WP | Completed Comments | 1 SMOKE SEWER |
| | | | | | | | | 1 SMOKED SEWER/TURNED OVER TO STREET DIV |

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| 13-267-271 | 13-1192 | 4817 55TH PLACE | 04092013 | 13 | 267 | 1192 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 13-267-271 | 13-1192 | 4817 55TH PLACE | 04092013 | 13 | 267 | 1192 WP | Completed Comments | 1 ON US |
| 13-267-272 | 13-1201 | HIGHLAND BAPTIST CHURCH | 04092013 | 13 | 267 | 1201 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-272 | 13-1201 | HIGHLAND BAPTIST CHURCH | 04092013 | 13 | 267 | 1201 WO | Work Order Comment | 3 34TH AVE/27TH ST |
| 13-267-272 | 13-1201 | HIGHLAND BAPTIST CHURCH | 04092013 | 13 | 267 | 1201 WO | Work Order Comment | 4 13090413410621 |
| 13-267-272 | 13-1201 | HIGHLAND BAPTIST CHURCH | 04092013 | 13 | 267 | 1201 WP | Completed Comments | 1 MADE 6" SEWER TAP |
| 13-267-273 | 13-1203 | 2508 6TH AVE | 04092013 | 13 | 267 | 1203 WO | Work Order Comment | 1 ASSIST STREET DIV |
| 13-267-273 | 13-1203 | 2508 6TH AVE | 04092013 | 13 | 267 | 1203 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-274 | 13-1206 | 106 24TH ST | 04102013 | 13 | 267 | 1206 WO | Work Order Comment | 1 ASSIST THE STREET DIV |
| 13-267-274 | 13-1206 | 106 24TH ST | 04102013 | 13 | 267 | 1206 WP | Completed Comments | 1 ON THE CUST |
| 13-267-275 | 13-1207 | 4510 KING RD | 04102013 | 13 | 267 | 1207 WO | Work Order Comment | 1 T.V. SEWER LINE |
| 13-267-275 | 13-1207 | 4510 KING RD | 04102013 | 13 | 267 | 1207 WP | Completed Comments | 1 CAMERA WOULD NOT WORK/CHECKED SEWER/ PROBLEM NOT RESOLVED |
| 13-267-276 | 13-1213 | 4703 VALLY ST | 04102013 | 13 | 267 | 1213 WO | Work Order Comment | 1 4" SEWER TAP |
| 13-267-276 | 13-1213 | 4703 VALLY ST | 04102013 | 13 | 267 | 1213 WP | Completed Comments | 1 4" SEWER SADDLE - 2, 4" SEWER PIPE 42', 4" 90-2 |
| 13-267-277 | 13-1214 | 4800 VALLY ST | 04102013 | 13 | 267 | 277 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-277 | 13-1214 | 4800 VALLY ST | 04102013 | 13 | 267 | 277 WO | Work Order Comment | 3 12121512080016 |
| 13-267-277 | 13-1214 | 4800 VALLY ST | 04102013 | 13 | 267 | 277 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 13-267-277 | 13-1214 | 4800 VALLY ST | 04102013 | 13 | 267 | 1214 WO | Work Order Comment | 1 8" SEWER LINE |
| 13-267-278 | 13-1216 | 2911 ST LUKE ST | 04102013 | 13 | 267 | 1216 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-278 | 13-1216 | 2911 ST LUKE ST | 04102013 | 13 | 267 | 1216 WP | Completed Comments | 1 ON US |
| 13-267-279 | 13-1222 | 4800 VALLY ST | 04112013 | 13 | 267 | 1222 WO | Work Order Comment | 1 SEWER TAPS |
| 13-267-279 | 13-1222 | 4800 VALLY ST | 04112013 | 13 | 267 | 1222 WP | Completed Comments | 1 8" SEWER LINE/4" SEWER TAP |
| 13-267-280 | 13-1223 | 1316 46TH AVE | 04112013 | 13 | 267 | 1223 WO | Work Order Comment | 1 CHECK MANHOLE/SEWER LINE BROKE DOWN |
| 13-267-280 | 13-1223 | 1316 46TH AVE | 04112013 | 13 | 267 | 1223 WO | Work Order Comment | 2 (OTIS ADVISED CUST TO HAVE ROTO ROOTER EXPOSED THE LINE BEFO |
| 13-267-280 | 13-1223 | 1316 46TH AVE | 04112013 | 13 | 267 | 1223 WO | Work Order Comment | 3 RE WE CAN COMPLETE ANY REPAIRS |
| 13-267-280 | 13-1223 | 1316 46TH AVE | 04112013 | 13 | 267 | 1223 WP | Completed Comments | 1 CUST NEEDS A PLUMBER |
| 13-267-281 | 13-1234 | 2700 ST LUKE ST | 04122013 | 13 | 267 | 1234 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-281 | 13-1234 | 2700 ST LUKE ST | 04122013 | 13 | 267 | 1234 WP | Completed Comments | 1 MANHOLE RUNNING OVER; FLUSHED LINE TO RESOLVE ISSUE |
| 13-267-282 | 13-1241 | CHIP PICKERING RD/FRED CLAYTON RD | 04122013 | 13 | 267 | 1241 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-282 | 13-1241 | CHIP PICKERING RD/FRED CLAYTON RD | 04122013 | 13 | 267 | 1241 WO | Work Order Comment | 3 13041213220496 |
| 13-267-282 | 13-1241 | CHIP PICKERING RD/FRED CLAYTON RD | 04122013 | 13 | 267 | 1241 WP | Completed Comments | 1 12" CLAMP ON 12" SEWER LINE |
| 13-267-283 | 13-1250 | 4510 KING RD | 04152013 | 13 | 267 | 1250 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-283 | 13-1250 | 4510 KING RD | 04152013 | 13 | 267 | 1250 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 13-267-284 | 13-1251 | OLD HWY 11/80 EAST | 04152013 | 13 | 267 | 1251 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-284 | 13-1251 | OLD HWY 11/80 EAST | 04152013 | 13 | 267 | 1251 WP | Completed Comments | 1 CALLED OUT FLUSH TRUCK TO FLUSH LINE AND MANHOLE |
| 13-267-285 | 13-1252 | 318 18TH ST | 04152013 | 13 | 267 | 1252 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-285 | 13-1252 | 318 18TH ST | 04152013 | 13 | 267 | 1252 WP | Completed Comments | 1 ON THEM |
| 13-267-286 | 13-1253 | 2308 25TH ST | 04152013 | 13 | 267 | 1253 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-286 | 13-1253 | 2308 25TH ST | 04152013 | 13 | 267 | 1253 WP | Completed Comments | 1 8' - 8" SEWER PIPE |
| 13-267-286 | 13-1253 | 2308 25TH ST | 04152013 | 13 | 267 | 1253 WP | Completed Comments | 2 2-8" MISSION COUPLING |
| 13-267-287 | 13-1255 | 2304 FRONT ST | 04152013 | 13 | 267 | 1255 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-287 | 13-1255 | 2304 FRONT ST | 04152013 | 13 | 267 | 1255 WP | Completed Comments | 1 SEWER LINE STOPPED UP/FLUSHED LINE |
| 13-267-288 | 13-1256 | 2304 FRONT STREET | 04152013 | 13 | 267 | 288 WO | Work Order Comment | 1 REPAIR SEWER MAIN |
| 13-267-288 | 13-1256 | 2304 FRONT STREET | 04152013 | 13 | 267 | 288 WO | Work Order Comment | 3 LOCATE #12121916320558 |
| 13-267-288 | 13-1256 | 2304 FRONT STREET | 04152013 | 13 | 267 | 288 WP | Completed Comments | 1 SEWER LATERAL BROKE DOWN/ USED 4FT N 3IN PVC PIPE AND TO COU |
| 13-267-288 | 13-1256 | 2304 FRONT STREET | 04152013 | 13 | 267 | 288 WP | Completed Comments | 2 PLING 4 IN |
| 13-267-288 | 13-1256 | 2304 FRONT STREET | 04152013 | 13 | 267 | 1256 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-288 | 13-1256 | 2304 FRONT STREET | 04152013 | 13 | 267 | 1256 WP | Completed Comments | 1 MANHOLE STOPPED UP |
| 13-267-289 | 13-1257 | 1518 18TH AVE | 04152013 | 13 | 267 | 1257 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-289 | 13-1257 | 1518 18TH AVE | 04152013 | 13 | 267 | 1257 WP | Completed Comments | 1 ON THE CUST |
| 13-267-290 | 13-1261 | 712 26TH STREET | 04162013 | 13 | 267 | 1261 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-290 | 13-1261 | 712 26TH STREET | 04162013 | 13 | 267 | 1261 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-291 | 13-1262 | 10TH ST/31ST AVE | 04162013 | 13 | 267 | 1262 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-291 | 13-1262 | 10TH ST/31ST AVE | 04162013 | 13 | 267 | 1262 WP | Completed Comments | 1 6 IN SEWER LATERAL LEAKING; PLUGGED 6 IN LATERAL |
| 13-267-292 | 13-1263 | 2916 DAVIS ST | 04162013 | 13 | 267 | 1263 WO | Work Order Comment | 1 REPAIR SEWER LATERAL /DISCONNECT FROM MAIN |
| 13-267-292 | 13-1263 | 2916 DAVIS ST | 04162013 | 13 | 267 | 1263 WO | Work Order Comment | 3 13041614260833 |
| 13-267-293 | 13-1265 | 1322 45TH AVE | 04162013 | 13 | 267 | 1265 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-293 | 13-1265 | 1322 45TH AVE | 04162013 | 13 | 267 | 1265 WP | Completed Comments | 1 ON THE CUST |
| 13-267-294 | 13-1273 | 17TH AVE/A STREET | 04172013 | 13 | 267 | 294 WO | Work Order Comment | 1 SEWER CAVE IN |

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|------------|---------|-----------------------------|----------|----|-----|---------|--------------------|---|
| 13-267-294 | 13-1273 | 17TH AVE/A STREET | 04172013 | 13 | 267 | 294 WO | Work Order Comment | 3 12122016060505 |
| 13-267-294 | 13-1273 | 17TH AVE/A STREET | 04172013 | 13 | 267 | 294 WP | Completed Comments | 1 USED A PIECE OF 6" PIPE AND 6" PVC TO CLAY COUPLING |
| 13-267-294 | 13-1273 | 17TH AVE/A STREET | 04172013 | 13 | 267 | 1273 WO | Work Order Comment | 1 ASSIST STREET DIV |
| 13-267-294 | 13-1273 | 17TH AVE/A STREET | 04172013 | 13 | 267 | 1273 WP | Completed Comments | 1 ON THE CUST |
| 13-267-295 | 13-1277 | HWY 19 N (WALMART) | 04182013 | 13 | 267 | 1277 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-295 | 13-1277 | HWY 19 N (WALMART) | 04182013 | 13 | 267 | 1277 WP | Completed Comments | 1 2- 8" MISSION COUPLING |
| 13-267-295 | 13-1277 | HWY 19 N (WALMART) | 04182013 | 13 | 267 | 1277 WP | Completed Comments | 2 6-8" SEWER PIPE |
| 13-267-296 | 13-1281 | OLD MARION RD/MERIDALE RD | 04182013 | 13 | 267 | 1281 WO | Work Order Comment | 1 SEWER LINE BACK UP |
| 13-267-296 | 13-1281 | OLD MARION RD/MERIDALE RD | 04182013 | 13 | 267 | 1281 WP | Completed Comments | 1 ON THE CUST |
| 13-267-297 | 13-1300 | VALLEY ST/ 47TH-48TH AVE | 04192013 | 13 | 267 | 1300 WO | Work Order Comment | 1 SEWER LINE & TAPS |
| 13-267-298 | 13-1304 | 6813 10TH AVE | 04192013 | 13 | 267 | 1304 WO | Work Order Comment | 1 4" SEWER TAP |
| 13-267-299 | 13-1310 | 52TH AVE/52ND ST | 04222013 | 13 | 267 | 299 WO | Work Order Comment | 1 REPLACE MANHOLE CASKING |
| 13-267-299 | 13-1310 | 52TH AVE/52ND ST | 04222013 | 13 | 267 | 299 WP | Completed Comments | 1 REPLACED MANHOLE CASKING |
| 13-267-300 | 13-1314 | 3RD AVE/D ST | 04222013 | 13 | 267 | 300 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-300 | 13-1314 | 3RD AVE/D ST | 04222013 | 13 | 267 | 300 WO | Work Order Comment | 3 13042213240964 |
| 13-267-300 | 13-1314 | 3RD AVE/D ST | 04222013 | 13 | 267 | 300 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-301 | 13-1331 | VALLEY ST/47TH AVE-48TH AVE | 04232013 | 13 | 267 | 301 WO | Work Order Comment | 1 SEWER LINES & TAPS |
| 13-267-302 | 13-1336 | 336 5TH PLACE | 04232013 | 13 | 267 | 302 WO | Work Order Comment | 1 REPAIR SEWER SERVICE |
| 13-267-303 | 13-1341 | DAVIS ST/COOPER AVE | 04242013 | 13 | 267 | 303 WO | Work Order Comment | 1 INSTALL SEWER LINE |
| 13-267-303 | 13-1341 | DAVIS ST/COOPER AVE | 04242013 | 13 | 267 | 303 WO | Work Order Comment | 3 13042410350332 |
| 13-267-303 | 13-1341 | DAVIS ST/COOPER AVE | 04242013 | 13 | 267 | 303 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-304 | 13-1344 | SOWASHEE ST | 04242013 | 13 | 267 | 304 WO | Work Order Comment | 1 REPLACE MANHOLE LID |
| 13-267-304 | 13-1344 | SOWASHEE ST | 04242013 | 13 | 267 | 304 WP | Completed Comments | 1 REPLACED MANHOLE CASKET & LID |
| 13-267-305 | 13-1345 | 23RD AVE/34TH ST | 04242013 | 13 | 267 | 305 WO | Work Order Comment | 1 REPLACE MANHOLE LID |
| 13-267-305 | 13-1345 | 23RD AVE/34TH ST | 04242013 | 13 | 267 | 305 WP | Completed Comments | 1 REPAIRED MANHOLE COVER |
| 13-267-306 | 13-1351 | 6315 H STREET | 04252013 | 13 | 267 | 306 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-306 | 13-1351 | 6315 H STREET | 04252013 | 13 | 267 | 306 WP | Completed Comments | 1 ON THE CUST |
| 13-267-307 | 13-1359 | 4806 KING RD | 04262013 | 13 | 267 | 307 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-307 | 13-1359 | 4806 KING RD | 04262013 | 13 | 267 | 307 WP | Completed Comments | 1 ON THE CUST |
| 13-267-308 | 13-1362 | 23RD AVE/34TH ST | 04302013 | 13 | 267 | 308 WO | Work Order Comment | 1 REPLACE MANHOLE COVER |
| 13-267-308 | 13-1362 | 23RD AVE/34TH ST | 04302013 | 13 | 267 | 308 WP | Completed Comments | 1 PUT NEW RING IN MANHOLE |
| 13-267-309 | 13-1363 | EAST WATER PLANT | 04302013 | 13 | 267 | 309 WO | Work Order Comment | 1 SEWER CLEAN UP AROUND MANHOLE |
| 13-267-309 | 13-1363 | EAST WATER PLANT | 04302013 | 13 | 267 | 309 WP | Completed Comments | 1 PUT HAY OUT & SPREAD LIME AROUND |
| 13-267-310 | 13-1371 | 4809 NEWELL RD | 05012013 | 13 | 267 | 310 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-310 | 13-1371 | 4809 NEWELL RD | 05012013 | 13 | 267 | 310 WP | Completed Comments | 1 ON US |
| 13-267-311 | 13-1372 | 5010 4TH AVE | 05012013 | 13 | 267 | 311 WO | Work Order Comment | 1 FLUSH SEWER LINE |
| 13-267-311 | 13-1372 | 5010 4TH AVE | 05012013 | 13 | 267 | 311 WP | Completed Comments | 1 ON US/MANHOLE RUNNING OVER |
| 13-267-312 | 13-1374 | DAVIS DT/28TH AVE | 05012013 | 13 | 267 | 312 WO | Work Order Comment | 1 INSTALL SEWER LINE |
| 13-267-313 | 13-1375 | 4510 KINGS RD | 05012013 | 13 | 267 | 313 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-313 | 13-1375 | 4510 KINGS RD | 05012013 | 13 | 267 | 313 WP | Completed Comments | 1 FLUSH LINE TO GIVE RELIEF/ON THE CUST |
| 13-267-314 | 13-1376 | 1900 6TH STREET | 05012013 | 13 | 267 | 314 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-314 | 13-1376 | 1900 6TH STREET | 05012013 | 13 | 267 | 314 WP | Completed Comments | 1 ASSISTED STREET DIV |
| 13-267-315 | 13-1392 | 271 KNIGHT PARKER ROAD | 05022013 | 13 | 267 | 315 WO | Work Order Comment | 1 CAVE IN |
| 13-267-315 | 13-1392 | 271 KNIGHT PARKER ROAD | 05022013 | 13 | 267 | 315 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 13-267-316 | 13-1397 | 2411 42ND AVE | 05022013 | 13 | 267 | 316 WO | Work Order Comment | 1 CAVE IN |
| 13-267-316 | 13-1397 | 2411 42ND AVE | 05022013 | 13 | 267 | 316 WP | Completed Comments | 1 REPLACE 4" SEWER LINE |
| 13-267-317 | 13-1408 | 551 64TH AVE | 05062013 | 13 | 267 | 317 WO | Work Order Comment | 1 SINKHOLE |
| 13-267-318 | 13-1409 | 4510 KING RD | 05062013 | 13 | 267 | 318 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-319 | 13-1410 | VALLY ST/48TH AVE | 05062013 | 13 | 267 | 319 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-319 | 13-1410 | VALLY ST/48TH AVE | 05062013 | 13 | 267 | 319 WP | Completed Comments | 1 DUG UP & LEVELED 4" LATERAL |
| 13-267-320 | 13-1411 | 3614 24TH ST | 05062013 | 13 | 267 | 320 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-320 | 13-1411 | 3614 24TH ST | 05062013 | 13 | 267 | 320 WO | Work Order Comment | 3 13050610220544 |
| 13-267-320 | 13-1411 | 3614 24TH ST | 05062013 | 13 | 267 | 320 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-321 | 13-1412 | 4622 POPLAR SPRINGS DRIVE | 05062013 | 13 | 267 | 321 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-321 | 13-1412 | 4622 POPLAR SPRINGS DRIVE | 05062013 | 13 | 267 | 321 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-322 | 13-1413 | 2217 32ND AVE | 05062013 | 13 | 267 | 322 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-322 | 13-1413 | 2217 32ND AVE | 05062013 | 13 | 267 | 322 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-323 | 13-1420 | 33RD AVE/13TH ST | 05072013 | 13 | 267 | 323 WO | Work Order Comment | 1 ASSIST STREET DIV |
| 13-267-323 | 13-1420 | 33RD AVE/13TH ST | 05072013 | 13 | 267 | 323 WP | Completed Comments | 1 ASSISTED STREET DIV/CLEANED OUT STORM DRAIN |

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|------------|---------|-------------------------|----------|----|-----|--------|--------------------|--|
| 13-267-324 | 13-1421 | POPEYES HWY 19N | 05072013 | 13 | 267 | 324 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-325 | 13-1422 | 3401 19TH ST | 05072013 | 13 | 267 | 325 WO | Work Order Comment | 1 ASSISTED STREET DIV |
| 13-267-325 | 13-1422 | 3401 19TH ST | 05072013 | 13 | 267 | 325 WP | Completed Comments | 1 ASSISTED STREET DIV/CLEANED OUT STORM DRAIN |
| 13-267-326 | 13-1440 | 2804 14TH PLACE | 05082013 | 13 | 267 | 326 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-326 | 13-1440 | 2804 14TH PLACE | 05082013 | 13 | 267 | 326 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-327 | 13-1441 | 16TH AVE/NORTH HILLS ST | 05082013 | 13 | 267 | 327 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-327 | 13-1441 | 16TH AVE/NORTH HILLS ST | 05082013 | 13 | 267 | 327 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-328 | 13-1445 | HWY 39/NORTH HILLS ST | 05082013 | 13 | 267 | 328 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-328 | 13-1445 | HWY 39/NORTH HILLS ST | 05082013 | 13 | 267 | 328 WP | Completed Comments | 1 FLUSHED MANHOLE |
| 13-267-329 | 13-1446 | 5218 LAKEWOOD DR | 05082013 | 13 | 267 | 329 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-329 | 13-1446 | 5218 LAKEWOOD DR | 05082013 | 13 | 267 | 329 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 13-267-330 | 13-1447 | 3821 42ND ST | 05082013 | 13 | 267 | 330 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-330 | 13-1447 | 3821 42ND ST | 05082013 | 13 | 267 | 330 WP | Completed Comments | 1 FLUSHED LINE TO REPAIR SEWER PROBLEM |
| 13-267-331 | 13-1452 | DAVIS ST/28TH AVE | 05092013 | 13 | 267 | 331 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-332 | 13-1453 | DAVIS ST/28TH AVE | 05092013 | 13 | 267 | 332 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-333 | 13-1454 | DAVIS ST/28TH AVE | 05092013 | 13 | 267 | 333 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-335 | 13-1455 | DAVIS ST/28TH AVE | 05092013 | 13 | 267 | 335 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-334 | 13-1456 | DAVIS ST/28TH AVE | 05092013 | 13 | 267 | 334 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-336 | 13-1458 | 34TH AVE/40TH ST | 05092013 | 13 | 267 | 336 WO | Work Order Comment | 1 BAD SEWER ODOR |
| 13-267-336 | 13-1458 | 34TH AVE/40TH ST | 05092013 | 13 | 267 | 336 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-337 | 13-1459 | 5201 16TH AVE | 05092013 | 13 | 267 | 337 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-337 | 13-1459 | 5201 16TH AVE | 05092013 | 13 | 267 | 337 WP | Completed Comments | 3 13050910230324 |
| 13-267-337 | 13-1459 | 5201 16TH AVE | 05092013 | 13 | 267 | 337 WO | Work Order Comment | 1 ON US |
| 13-267-337 | 13-1459 | 5201 16TH AVE | 05092013 | 13 | 267 | 337 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-338 | 13-1460 | 903 31ST STREET | 05092013 | 13 | 267 | 338 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-338 | 13-1460 | 903 31ST STREET | 05092013 | 13 | 267 | 338 WP | Completed Comments | 1 SEWER TAP |
| 13-267-339 | 13-1464 | 3614 24TH ST | 05092013 | 13 | 267 | 339 WO | Work Order Comment | 1 REPAIRED 4" SEWER PIPE |
| 13-267-339 | 13-1464 | 3614 24TH ST | 05092013 | 13 | 267 | 339 WP | Completed Comments | 1 10" SEWER LINE |
| 13-267-340 | 13-1467 | DAVIS ST/28TH AVE | 05092013 | 13 | 267 | 340 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-341 | 13-1469 | 29TH AVE/ST JOHN ST | 05092013 | 13 | 267 | 341 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-342 | 13-1470 | 321 46TH CT | 05092013 | 13 | 267 | 342 WO | Work Order Comment | 3 13050910210322 |
| 13-267-342 | 13-1470 | 321 46TH CT | 05092013 | 13 | 267 | 342 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-342 | 13-1470 | 321 46TH CT | 05092013 | 13 | 267 | 342 WP | Completed Comments | 1 FLUSH SEWER LINE |
| 13-267-343 | 13-1471 | 3RD AVE/D ST | 05092013 | 13 | 267 | 343 WO | Work Order Comment | 1 ON US |
| 13-267-343 | 13-1471 | 3RD AVE/D ST | 05092013 | 13 | 267 | 343 WP | Completed Comments | 1 SEWER CAVE IN |
| 13-267-344 | 13-1472 | 1416 18TH ST | 05092013 | 13 | 267 | 344 WO | Work Order Comment | 3 13050909460267 |
| 13-267-344 | 13-1472 | 1416 18TH ST | 05092013 | 13 | 267 | 344 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-344 | 13-1472 | 1416 18TH ST | 05092013 | 13 | 267 | 344 WP | Completed Comments | 1 SEWER LEAK |
| 13-267-345 | 13-1473 | 5601 1ST STREET | 05092013 | 13 | 267 | 345 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-345 | 13-1473 | 5601 1ST STREET | 05092013 | 13 | 267 | 345 WP | Completed Comments | 1 SEWER BACKUP |
| 13-267-346 | 13-1474 | 4809 NEWELL RD | 05092013 | 13 | 267 | 346 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-347 | 13-1475 | 2011 LYNCH AVE | 05092013 | 13 | 267 | 347 WO | Work Order Comment | 1 NO PROBLEM FOUND |
| 13-267-347 | 13-1475 | 2011 LYNCH AVE | 05092013 | 13 | 267 | 347 WP | Completed Comments | 1 10" SEWER LINE |
| 13-267-348 | 13-1489 | DAVIS ST/28TH AVE | 05132013 | 13 | 267 | 348 WO | Work Order Comment | 1 1 CONE/3 SEC 10" PIPE |
| 13-267-348 | 13-1489 | DAVIS ST/28TH AVE | 05132013 | 13 | 267 | 348 WP | Completed Comments | 1 LOCATING MANHOLE |
| 13-267-349 | 13-1492 | 3RD AVE/D ST | 05132013 | 13 | 267 | 349 WO | Work Order Comment | 1 PUT 6" & 4" RISER ON MANHOLE |
| 13-267-349 | 13-1492 | 3RD AVE/D ST | 05132013 | 13 | 267 | 349 WP | Completed Comments | 1 CAVE IN |
| 13-267-350 | 13-1494 | 2411 42ND AVE | 05132013 | 13 | 267 | 350 WO | Work Order Comment | 1 REPAIR 4" SEWER LINE |
| 13-267-350 | 13-1494 | 2411 42ND AVE | 05132013 | 13 | 267 | 350 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-351 | 13-1498 | 1619 51ST AVE | 05132013 | 13 | 267 | 351 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-351 | 13-1498 | 1619 51ST AVE | 05132013 | 13 | 267 | 351 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-352 | 13-1499 | 2011 LYNCH ST | 05132013 | 13 | 267 | 352 WO | Work Order Comment | 1 REMOVED DIRT HILL TO GO IN WOODS TO LOCATE MANHOLE/FLUSHED |
| 13-267-352 | 13-1499 | 2011 LYNCH ST | 05132013 | 13 | 267 | 352 WP | Completed Comments | 2 SEWER LINE |
| 13-267-352 | 13-1499 | 2011 LYNCH ST | 05132013 | 13 | 267 | 352 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-353 | 13-1501 | 3003 40TH AVE | 05132013 | 13 | 267 | 353 WO | Work Order Comment | 1 ON US/FLUSHED THE LINE |
| 13-267-353 | 13-1501 | 3003 40TH AVE | 05132013 | 13 | 267 | 353 WP | Completed Comments | 1 SEWER CAVE IN |
| 13-267-354 | 13-1514 | 1706 38TH ST | 05142013 | 13 | 267 | 354 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-355 | 13-1516 | 2011 LYNCH ST | 05142013 | 13 | 267 | 355 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-355 | 13-1516 | 2011 LYNCH ST | 05142013 | 13 | 267 | 355 WP | Completed Comments | 1 CAVE IN |
| 13-267-356 | 13-1519 | 2411 42ND AVE | 05142013 | 13 | 267 | 356 WO | Work Order Comment | |

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| 13-267-357 | 13-1520 | DAVIS ST/28TH AVE | 05142013 | 13 | 267 | 357 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-357 | 13-1520 | DAVIS ST/28TH AVE | 05142013 | 13 | 267 | 357 WP | Completed Comments | 1 5 SEC OF 8" SEWER PIPE |
| 13-267-358 | 13-1539 | 3801 10TH AVE | 05152013 | 13 | 267 | 358 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-358 | 13-1539 | 3801 10TH AVE | 05152013 | 13 | 267 | 358 WP | Completed Comments | 1 ON THE CUST |
| 13-267-359 | 13-1541 | 104 21ST CT | 05152013 | 13 | 267 | 359 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-359 | 13-1541 | 104 21ST CT | 05152013 | 13 | 267 | 359 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-360 | 13-1542 | 2711 12TH ST | 05152013 | 13 | 267 | 360 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-360 | 13-1542 | 2711 12TH ST | 05152013 | 13 | 267 | 360 WP | Completed Comments | 1 ON TEH CUST |
| 13-267-361 | 13-1547 | 1416 18TH ST | 05152013 | 13 | 267 | 361 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-361 | 13-1547 | 1416 18TH ST | 05152013 | 13 | 267 | 361 WP | Completed Comments | 1 REPAIRED SEWER LINE |
| 13-267-362 | 13-1548 | 2ND ST/34TH AVE | 05152013 | 13 | 267 | 362 WO | Work Order Comment | 1 LID IN MANHOLE |
| 13-267-363 | 13-1561 | DAVIS ST/28TH AVE | 05162013 | 13 | 267 | 363 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-364 | 13-1562 | 2021 39TH AVE | 05162013 | 13 | 267 | 364 WO | Work Order Comment | 1 FLUSH MANHOLE/SEWER PROBLEMS |
| 13-267-364 | 13-1562 | 2021 39TH AVE | 05162013 | 13 | 267 | 364 WP | Completed Comments | 1 ON THE CUST |
| 13-267-365 | 13-1563 | 1925 30TH AVE | 05162013 | 13 | 267 | 365 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-365 | 13-1563 | 1925 30TH AVE | 05162013 | 13 | 267 | 365 WP | Completed Comments | 1 ON THE CUST |
| 13-267-366 | 13-1564 | 3462 STATE BLVD | 05162013 | 13 | 267 | 366 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-366 | 13-1564 | 3462 STATE BLVD | 05162013 | 13 | 267 | 366 WP | Completed Comments | 1 ON THE CUST |
| 13-267-367 | 13-1574 | DAVIS ST/28TH AVE | 05172013 | 13 | 267 | 367 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-368 | 13-1578 | SOWASHEE/29TH AVE | 05172013 | 13 | 267 | 368 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-369 | 13-1584 | 3308 35TH AVE | 05172013 | 13 | 267 | 369 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-370 | 13-1599 | 52ND ST/16TH AVE | 05202013 | 13 | 267 | 370 WO | Work Order Comment | 1 SEWER DITCH |
| 13-267-370 | 13-1599 | 52ND ST/16TH AVE | 05202013 | 13 | 267 | 370 WP | Completed Comments | 1 SEWER STOPPED UP/ UNCLOGGED SEWER |
| 13-267-371 | 13-1600 | DAVIS ST/28TH AVE | 05202013 | 13 | 267 | 371 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-372 | 13-1603 | 2711 30TH AVE | 05202013 | 13 | 267 | 372 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-372 | 13-1603 | 2711 30TH AVE | 05202013 | 13 | 267 | 372 WP | Completed Comments | 1 ON THE CUST |
| 13-267-373 | 13-1604 | 2711 30TH AVE | 05202013 | 13 | 267 | 373 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-373 | 13-1604 | 2711 30TH AVE | 05202013 | 13 | 267 | 373 WP | Completed Comments | 1 ON THE CUST |
| 13-267-374 | 13-1605 | 1710 14TH ST | 05202013 | 13 | 267 | 374 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-374 | 13-1605 | 1710 14TH ST | 05202013 | 13 | 267 | 374 WP | Completed Comments | 1 ON THE CUST |
| 13-267-375 | 13-1616 | 5201 52ND STREET | 05212013 | 13 | 267 | 375 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-375 | 13-1616 | 5201 52ND STREET | 05212013 | 13 | 267 | 375 WP | Completed Comments | 1 REPAIRED CAVE IN |
| 13-267-376 | 13-1619 | DAVIS ST/28TH AVE | 05212013 | 13 | 267 | 376 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-376 | 13-1619 | DAVIS ST/28TH AVE | 05212013 | 13 | 267 | 376 WP | Completed Comments | 1 1 24" RISER/2 YARD CONCRETE |
| 13-267-377 | 13-1620 | 5223 LAKEWOOD DR | 05212013 | 13 | 267 | 377 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-377 | 13-1620 | 5223 LAKEWOOD DR | 05212013 | 13 | 267 | 377 WP | Completed Comments | 1 NO SEWER PROBLEMS/POSSIBLE WATER LEAK |
| 13-267-378 | 13-1621 | 314 46TH AVE | 05212013 | 13 | 267 | 378 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-378 | 13-1621 | 314 46TH AVE | 05212013 | 13 | 267 | 378 WP | Completed Comments | 1 ON THE CUST |
| 13-267-379 | 13-1622 | NORTHVIEW DRIVE/52ND STREET | 05212013 | 13 | 267 | 379 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-379 | 13-1622 | NORTHVIEW DRIVE/52ND STREET | 05212013 | 13 | 267 | 379 WP | Completed Comments | 1 ON US/ FLUSHED LINE TO UNSTOP LINE |
| 13-267-380 | 13-1623 | 4912 HOOPER ST | 05212013 | 13 | 267 | 380 WO | Work Order Comment | 1 SEWAGE IN DITCH |
| 13-267-380 | 13-1623 | 4912 HOOPER ST | 05212013 | 13 | 267 | 380 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-381 | 13-1624 | 5908 2ND STREET | 05212013 | 13 | 267 | 381 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-381 | 13-1624 | 5908 2ND STREET | 05212013 | 13 | 267 | 381 WP | Completed Comments | 1 ON US- LINE BROKEN DOWN |
| 13-267-382 | 13-1627 | 4313 33RD AVE | 05212013 | 13 | 267 | 382 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-382 | 13-1627 | 4313 33RD AVE | 05212013 | 13 | 267 | 382 WP | Completed Comments | 1 ON US/FLUSHED MANHOLE |
| 13-267-383 | 13-1633 | GRANDVIEW AVE/38TH ST | 05222013 | 13 | 267 | 383 WO | Work Order Comment | 1 SEWER SINKHOLE |
| 13-267-384 | 13-1637 | 2219 52ND AVE | 05222013 | 13 | 267 | 384 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-384 | 13-1637 | 2219 52ND AVE | 05222013 | 13 | 267 | 384 WP | Completed Comments | 1 ON US |
| 13-267-385 | 13-1646 | BONITA LAKES DAM | 05232013 | 13 | 267 | 385 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-385 | 13-1646 | BONITA LAKES DAM | 05232013 | 13 | 267 | 385 WP | Completed Comments | 1 REPAIRED DRAINAGE LINE |
| 13-267-386 | 13-1647 | DAVIS ST/28TH AVE | 05232013 | 13 | 267 | 386 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 13-267-386 | 13-1647 | DAVIS ST/28TH AVE | 05232013 | 13 | 267 | 386 WP | Completed Comments | 1 1-24" RISER |
| 13-267-386 | 13-1647 | DAVIS ST/28TH AVE | 05232013 | 13 | 267 | 386 WP | Completed Comments | 2 3-SEC OF 8" PIPE |
| 13-267-386 | 13-1647 | DAVIS ST/28TH AVE | 05232013 | 13 | 267 | 386 WP | Completed Comments | 3 2 YD OF CONCRETE |
| 13-267-387 | 13-1648 | GRANDVIEW AVE/ 38TH ST | 05232013 | 13 | 267 | 387 WO | Work Order Comment | 1 SINKHOLE |
| 13-267-388 | 13-1650 | LAKEVIEW GOLF COURSE | 05232013 | 13 | 267 | 388 WO | Work Order Comment | 1 REMOVE ROOTS FROM PIPE |
| 13-267-388 | 13-1650 | LAKEVIEW GOLF COURSE | 05232013 | 13 | 267 | 388 WP | Completed Comments | 1 REMOVED THE ROOTS FROM PIPES |
| 13-267-389 | 13-1651 | 5916 2ND ST | 05232013 | 13 | 267 | 389 WO | Work Order Comment | 1 REPAIR SEWER LINE |

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| 13-267-389 | 13-1651 | 5916 2ND ST | 05232013 | 13 | 267 | 389 WO | Work Order Comment | 3 13052309390277 |
| 13-267-389 | 13-1651 | 5916 2ND ST | 05232013 | 13 | 267 | 389 WP | Completed Comments | 1 FLUSHED LINE/NO PROBLEM FOUND ON CITY MAIN |
| 13-267-390 | 13-1655 | 1801 16TH AVE | 05232013 | 13 | 267 | 390 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-390 | 13-1655 | 1801 16TH AVE | 05232013 | 13 | 267 | 390 WP | Completed Comments | 1 SEWER BACKUP |
| 13-267-391 | 13-1666 | 201 S. FRONTAGE RD | 05242013 | 13 | 267 | 391 WO | Work Order Comment | 1 REPAIR SEWER LIFT STATION |
| 13-267-391 | 13-1666 | 201 S. FRONTAGE RD | 05242013 | 13 | 267 | 391 WO | Work Order Comment | 3 13052414110878 |
| 13-267-391 | 13-1666 | 201 S. FRONTAGE RD | 05242013 | 13 | 267 | 391 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-392 | 13-1677 | 908 CHURCH AVE | 05292013 | 13 | 267 | 392 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-392 | 13-1677 | 908 CHURCH AVE | 05292013 | 13 | 267 | 392 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 13-267-393 | 13-1679 | DOMINOE'S PIZZA/PSD | 05292013 | 13 | 267 | 393 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-393 | 13-1679 | DOMINOE'S PIZZA/PSD | 05292013 | 13 | 267 | 393 WP | Completed Comments | 1 PROBLEM ON US/FLUSHED MAIN LINE |
| 13-267-394 | 13-1683 | 38TH ST/GRANDVIEW AVE | 05292013 | 13 | 267 | 394 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-395 | 13-1686 | 2011 LYNCH AVE | 05292013 | 13 | 267 | 395 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-395 | 13-1686 | 2011 LYNCH AVE | 05292013 | 13 | 267 | 395 WP | Completed Comments | 1 REPAIRED 4" SEWER LINE |
| 13-267-396 | 13-1688 | SOUTH FRONTAGE RD/RED LOBSTER | 05292013 | 13 | 267 | 396 WO | Work Order Comment | 1 REPLACE CHECK VALVES |
| 13-267-396 | 13-1688 | SOUTH FRONTAGE RD/RED LOBSTER | 05292013 | 13 | 267 | 396 WP | Completed Comments | 1 REPAIRED 6" VALVE |
| 13-267-397 | 13-1689 | DAVIS ST/28TH AVE | 05292013 | 13 | 267 | 397 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-397 | 13-1689 | DAVIS ST/28TH AVE | 05292013 | 13 | 267 | 397 WP | Completed Comments | 1 WE USED ONE TAPPING SADDLER AND 4 SEWER PIPE; 1- 90 BEND |
| 13-267-397 | 13-1689 | DAVIS ST/28TH AVE | 05292013 | 13 | 267 | 397 WP | Completed Comments | 2 WATER LEAK- WE USED 10 INCH SADDLER FOR WATER LINE |
| 13-267-398 | 13-1709 | RED LOBSTER LIFT STATION | 05302013 | 13 | 267 | 398 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 13-267-398 | 13-1709 | RED LOBSTER LIFT STATION | 05302013 | 13 | 267 | 398 WP | Completed Comments | 1 REPAIRED LIFT STATION |
| 13-267-399 | 13-1713 | 2410 46TH ST | 05302013 | 13 | 267 | 399 WO | Work Order Comment | 1 4" SEWER TAP |
| 13-267-399 | 13-1713 | 2410 46TH ST | 05302013 | 13 | 267 | 399 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-399 | 13-1713 | 2410 46TH ST | 05302013 | 13 | 267 | 399 WP | Completed Comments | 2 ` |
| 13-267-400 | 13-1716 | COLLEGE PARK METHODIST CHURCH | 05302013 | 13 | 267 | 400 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-400 | 13-1716 | COLLEGE PARK METHODIST CHURCH | 05302013 | 13 | 267 | 400 WP | Completed Comments | 1 ON THEM |
| 13-267-401 | 13-1717 | EMSH | 05302013 | 13 | 267 | 401 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-401 | 13-1717 | EMSH | 05302013 | 13 | 267 | 401 WP | Completed Comments | 1 ON THEM |
| 13-267-402 | 13-1718 | 5515 CHEROKEE RD | 05302013 | 13 | 267 | 402 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-403 | 13-1726 | 5515 CHEROKEE RD | 05312013 | 13 | 267 | 403 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 13-267-404 | 13-1731 | 2925 10TH AVE | 05312013 | 13 | 267 | 404 WO | Work Order Comment | 1 ASSISTED STREET DEPT |
| 13-267-404 | 13-1731 | 2925 10TH AVE | 05312013 | 13 | 267 | 404 WP | Completed Comments | 1 ASSISTED STREET DEPT/FLUSH LINE |
| 13-267-405 | 13-1732 | TOWER AUTOMOTIVE-INDUSTRIAL PARK | 05312013 | 13 | 267 | 405 WO | Work Order Comment | 1 MANHOLE LID & REPAIR MANHOLE CASKING |
| 13-267-405 | 13-1732 | TOWER AUTOMOTIVE-INDUSTRIAL PARK | 05312013 | 13 | 267 | 405 WP | Completed Comments | 1 CASTING/2 BAGS OF CEMENT |
| 13-267-406 | 13-1733 | 1520 14TH AVE | 05312013 | 13 | 267 | 406 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-406 | 13-1733 | 1520 14TH AVE | 05312013 | 13 | 267 | 406 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-407 | 13-1734 | 1101 48TH AVE | 05312013 | 13 | 267 | 407 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-407 | 13-1734 | 1101 48TH AVE | 05312013 | 13 | 267 | 407 WP | Completed Comments | 1 ON THE CUST |
| 13-267-408 | 13-1735 | 1316 46TH AVE | 05312013 | 13 | 267 | 408 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-408 | 13-1735 | 1316 46TH AVE | 05312013 | 13 | 267 | 408 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-409 | 13-1737 | FRED'S DOLLAR STORE | 05312013 | 13 | 267 | 409 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-409 | 13-1737 | FRED'S DOLLAR STORE | 05312013 | 13 | 267 | 409 WP | Completed Comments | 1 MAIN LINE CLEAR/ NO PROBLEM FOUND |
| 13-267-410 | 13-1738 | 905 65TH AVE | 05312013 | 13 | 267 | 410 WO | Work Order Comment | 1 POSSIBLE SEWER PROBLEMS |
| 13-267-410 | 13-1738 | 905 65TH AVE | 06032013 | 13 | 267 | 410 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-411 | 13-1751 | 3424 PSD | 06032013 | 13 | 267 | 411 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-411 | 13-1751 | 3424 PSD | 06032013 | 13 | 267 | 411 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-412 | 13-1757 | 5601 1ST ST | 06032013 | 13 | 267 | 412 WO | Work Order Comment | 1 REPAIR MANHOLE LID |
| 13-267-412 | 13-1757 | 5601 1ST ST | 06032013 | 13 | 267 | 412 WP | Completed Comments | 1 REPAIRED MANHOLE COVER |
| 13-267-413 | 13-1770 | 3001 OLD MARION RD | 06052013 | 13 | 267 | 413 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-413 | 13-1770 | 3001 OLD MARION RD | 06052013 | 13 | 267 | 413 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-414 | 13-1773 | 211 WINDMILL DRIVE | 06052013 | 13 | 267 | 414 WO | Work Order Comment | 1 8" SEWER TAP |
| 13-267-414 | 13-1773 | 211 WINDMILL DRIVE | 06052013 | 13 | 267 | 414 WP | Completed Comments | 1 MADE A 8" SEWER TAP |
| 13-267-415 | 13-1774 | 321 46TH CT | 06052013 | 13 | 267 | 415 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-416 | 13-1780 | 503 E STREET | 06052013 | 13 | 267 | 416 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-416 | 13-1780 | 503 E STREET | 06052013 | 13 | 267 | 416 WP | Completed Comments | 1 ON US |
| 13-267-417 | 13-1782 | 3646 23RD AVE | 06052013 | 13 | 267 | 417 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-417 | 13-1782 | 3646 23RD AVE | 06052013 | 13 | 267 | 417 WP | Completed Comments | 1 ON THE CUST |
| 13-267-418 | 13-1783 | 308 3RD AVE | 06052013 | 13 | 267 | 418 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-418 | 13-1783 | 308 3RD AVE | 06052013 | 13 | 267 | 418 WP | Completed Comments | 1 ON US |

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| 13-267-419 | 13-1787 | 321 46TH COURT | 06062013 | 13 | 267 | 419 WO | Work Order Comment | 1 WATER LEAK-SEWER LINE |
| 13-267-420 | 13-1790 | 311 27TH AVE | 06062013 | 13 | 267 | 420 WO | Work Order Comment | 1 REPAIR WATER LEAK |
| 13-267-420 | 13-1790 | 311 27TH AVE | 06062013 | 13 | 267 | 420 WP | Completed Comments | 1 REPAIRED WATER LEAK |
| 13-267-421 | 13-1792 | 211 WINDMILL DR | 06062013 | 13 | 267 | 421 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-422 | 13-1793 | 3RD AVE/D STREET | 06062013 | 13 | 267 | 422 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-422 | 13-1793 | 3RD AVE/D STREET | 06062013 | 13 | 267 | 422 WP | Completed Comments | 1 FLUSHED SEWER LINE |
| 13-267-423 | 13-1794 | 29TH AVE/14TH ST | 06062013 | 13 | 267 | 423 WO | Work Order Comment | 1 CAVE IN |
| 13-267-423 | 13-1794 | 29TH AVE/14TH ST | 06062013 | 13 | 267 | 423 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-424 | 13-1809 | 321 46TH COURT | 06072013 | 13 | 267 | 424 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-425 | 13-1811 | 1301 20TH AVE | 06072013 | 13 | 267 | 425 WO | Work Order Comment | 1 DRESS UP |
| 13-267-425 | 13-1811 | 1301 20TH AVE | 06072013 | 13 | 267 | 425 WP | Completed Comments | 1 WASHED DOWN STREET/DISINFECTED AREA DUE TO SEWAGE RUNNING FR |
| 13-267-426 | 13-1812 | 905 65TH AVE | 06072013 | 13 | 267 | 425 WP | Completed Comments | 2 OM NEXT DOOR 1302 21ST AVE |
| 13-267-426 | 13-1812 | 905 65TH AVE | 06072013 | 13 | 267 | 426 WO | Work Order Comment | 1 CAVE IN |
| 13-267-427 | 13-1817 | CEFCO - HWY 19S | 06072013 | 13 | 267 | 426 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-427 | 13-1817 | CEFCO - HWY 19S | 06072013 | 13 | 267 | 427 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-427 | 13-1817 | CEFCO - HWY 19S | 06072013 | 13 | 267 | 427 WP | Completed Comments | 1 FLUSHED MAIN LINE |
| 13-267-428 | 13-1822 | 29TH AVE/14TH ST | 06102013 | 13 | 267 | 428 WO | Work Order Comment | 1 CAVE IN |
| 13-267-428 | 13-1822 | 29TH AVE/14TH ST | 06102013 | 13 | 267 | 428 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 13-267-429 | 13-1823 | 1536 38TH ST | 06102013 | 13 | 267 | 429 WO | Work Order Comment | 1 CAVE IN |
| 13-267-430 | 13-1825 | 36TH ST/PARKWAY BLVD | 06102013 | 13 | 267 | 430 WO | Work Order Comment | 1 CAVE IN |
| 13-267-430 | 13-1825 | 36TH ST/PARKWAY BLVD | 06102013 | 13 | 267 | 430 WO | Work Order Comment | 3 13061009390362 |
| 13-267-430 | 13-1825 | 36TH ST/PARKWAY BLVD | 06102013 | 13 | 267 | 430 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-431 | 13-1826 | 3611 29TH AVE | 06102013 | 13 | 267 | 431 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-431 | 13-1826 | 3611 29TH AVE | 06102013 | 13 | 267 | 431 WP | Completed Comments | 1 NO CAVE IN |
| 13-267-432 | 13-1827 | 1310 39TH AVE | 06102013 | 13 | 267 | 432 WO | Work Order Comment | 1 SEWER LINE |
| 13-267-433 | 13-1828 | 2011 LYNCH AVE | 06102013 | 13 | 267 | 433 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-433 | 13-1828 | 2011 LYNCH AVE | 06102013 | 13 | 267 | 433 WP | Completed Comments | 1 20' 6" DIP |
| 13-267-433 | 13-1828 | 2011 LYNCH AVE | 06102013 | 13 | 267 | 433 WP | Completed Comments | 2 2-6" C/PVC MISSION COUPLING |
| 13-267-434 | 13-1829 | DAVIS ST/28TH AVE | 06102013 | 13 | 267 | 433 WP | Completed Comments | 3 5 TON GRAVEL |
| 13-267-434 | 13-1829 | DAVIS ST/28TH AVE | 06102013 | 13 | 267 | 434 WO | Work Order Comment | 1 MANHOLE |
| 13-267-434 | 13-1829 | DAVIS ST/28TH AVE | 06102013 | 13 | 267 | 434 WP | Completed Comments | 1 2-5 X 6 STEEL PLATES |
| 13-267-434 | 13-1829 | DAVIS ST/28TH AVE | 06102013 | 13 | 267 | 434 WP | Completed Comments | 2 2- MH LIDS |
| 13-267-434 | 13-1829 | DAVIS ST/28TH AVE | 06102013 | 13 | 267 | 434 WP | Completed Comments | 3 1-CASTING |
| 13-267-435 | 13-1831 | 3622 24TH AVE | 06102013 | 13 | 267 | 435 WO | Work Order Comment | 4 4 BAG OF CONCRETE |
| 13-267-435 | 13-1831 | 3622 24TH AVE | 06102013 | 13 | 267 | 435 WP | Completed Comments | 1 CAVE IN |
| 13-267-436 | 13-1832 | HWY 19 S | 06102013 | 13 | 267 | 435 WP | Completed Comments | 1 TURNED OVER TO STREET DIV |
| 13-267-436 | 13-1832 | HWY 19 S | 06102013 | 13 | 267 | 436 WO | Work Order Comment | 1 MANHOLE LID MISSING |
| 13-267-437 | 13-1834 | 3617 37TH ST | 06102013 | 13 | 267 | 436 WP | Completed Comments | 1 MANHOLE LID NEEDS REPAIRING/ |
| 13-267-437 | 13-1834 | 3617 37TH ST | 06102013 | 13 | 267 | 437 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-438 | 13-1835 | 1706 28TH ST | 06102013 | 13 | 267 | 437 WP | Completed Comments | 1 ON US/FLUSHED MAIN LINE |
| 13-267-438 | 13-1835 | 1706 28TH ST | 06102013 | 13 | 267 | 438 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-439 | 13-1836 | 3605 23RD AVE | 06102013 | 13 | 267 | 438 WP | Completed Comments | 1 REPAIRED MANHOLE 9 BAGS OF CEMENT |
| 13-267-439 | 13-1836 | 3605 23RD AVE | 06102013 | 13 | 267 | 439 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-440 | 13-1837 | 301 63RD PLACE | 06102013 | 13 | 267 | 439 WP | Completed Comments | 1 SEWER LINE PROBLEMS/NEED A CREW |
| 13-267-440 | 13-1837 | 301 63RD PLACE | 06102013 | 13 | 267 | 440 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-441 | 13-1843 | 5100 CHANDLER RD | 06112013 | 13 | 267 | 440 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-442 | 13-1844 | HWY 19 SOUTH | 06112013 | 13 | 267 | 441 WO | Work Order Comment | 1 MANHOLE LID KNOCKED OFF |
| 13-267-443 | 13-1845 | 2011 LYNCH AVE | 06112013 | 13 | 267 | 442 WO | Work Order Comment | 1 REPAIR MANHOLE LID |
| 13-267-443 | 13-1845 | 2011 LYNCH AVE | 06112013 | 13 | 267 | 443 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-444 | 13-1846 | DAVIS ST/28TH AVE | 06112013 | 13 | 267 | 443 WP | Completed Comments | 1 DRESSED UP CUT |
| 13-267-445 | 13-1847 | KEYFIELD/AIR GUARD BASE | 06112013 | 13 | 267 | 444 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 13-267-445 | 13-1847 | KEYFIELD/AIR GUARD BASE | 06112013 | 13 | 267 | 445 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-446 | 13-1853 | 4006 N. HILLS STREET | 06112013 | 13 | 267 | 445 WP | Completed Comments | 1 UNSTOPPED MANHOLE/FLUSHED LINE |
| 13-267-446 | 13-1853 | 4006 N. HILLS STREET | 06112013 | 13 | 267 | 446 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-447 | 13-1854 | 301 49TH AVE | 06112013 | 13 | 267 | 446 WP | Completed Comments | 1 SEWER PROBLEMS - TURN OVER TO STREET DEPT |
| 13-267-447 | 13-1854 | 301 49TH AVE | 06112013 | 13 | 267 | 447 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-448 | 13-1858 | 503 E STREET | 06122013 | 13 | 267 | 447 WP | Completed Comments | 1 SEWER PROBLEMS - ON US/FLUSHED MAIN LINE |
| 13-267-448 | 13-1858 | 503 E STREET | 06122013 | 13 | 267 | 448 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 13-267-448 | 13-1858 | 503 E STREET | 06122013 | 13 | 267 | 448 WO | Work Order Comment | 3 13061212270648 EMERGENCY LOCATE |

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| 13-267-448 | 13-1858 | 503 E STREET | 06122013 | 13 | 267 | 448 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-449 | 13-1862 | 301 63RD PLACE | 06132013 | 13 | 267 | 449 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-449 | 13-1862 | 301 63RD PLACE | 06132013 | 13 | 267 | 449 WP | Completed Comments | 1 SEWER PROBLEMS - ON US |
| 13-267-450 | 13-1864 | 36TH ST/PARKWAY BLVD | 06132013 | 13 | 267 | 450 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-451 | 13-1865 | DAVIS ST/28TH AVE | 06132013 | 13 | 267 | 451 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 13-267-451 | 13-1865 | DAVIS ST/28TH AVE | 06132013 | 13 | 267 | 451 WP | Completed Comments | 1 2 YD CONCRETE |
| 13-267-451 | 13-1865 | DAVIS ST/28TH AVE | 06132013 | 13 | 267 | 451 WP | Completed Comments | 2 1-24" RISER |
| 13-267-451 | 13-1865 | DAVIS ST/28TH AVE | 06132013 | 13 | 267 | 451 WP | Completed Comments | 3 1-6X5 PLATE |
| 13-267-451 | 13-1865 | DAVIS ST/28TH AVE | 06132013 | 13 | 267 | 451 WP | Completed Comments | 4 2 BAG CONCRETE |
| 13-267-451 | 13-1865 | DAVIS ST/28TH AVE | 06132013 | 13 | 267 | 451 WP | Completed Comments | 1 SEWER LINE REPAIR |
| 13-267-452 | 13-1867 | 3605 23RD AVE | 06132013 | 13 | 267 | 452 WO | Work Order Comment | 1 TURNED OVER TO STREET DIV |
| 13-267-452 | 13-1867 | 3605 23RD AVE | 06132013 | 13 | 267 | 452 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 13-267-453 | 13-1871 | 4629 18TH AVE | 06132013 | 13 | 267 | 453 WO | Work Order Comment | 1 ON US/FLUSHED LINE |
| 13-267-453 | 13-1871 | 4629 18TH AVE | 06132013 | 13 | 267 | 453 WP | Completed Comments | 1 SEWER ODOR |
| 13-267-454 | 13-1880 | 3708 49TH CT | 06142013 | 13 | 267 | 454 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 13-267-454 | 13-1880 | 3708 49TH CT | 06142013 | 13 | 267 | 454 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-455 | 13-1883 | 2015 MOSBY RD | 06142013 | 13 | 267 | 455 WO | Work Order Comment | 1 ON US |
| 13-267-455 | 13-1883 | 2015 MOSBY RD | 06142013 | 13 | 267 | 455 WP | Completed Comments | 1 REPLACE MANHOLE LID |
| 13-267-456 | 13-1884 | 56TH AVE/5TH ST | 06142013 | 13 | 267 | 456 WO | Work Order Comment | 1 REPAIRED MANHOLE |
| 13-267-456 | 13-1884 | 56TH AVE/5TH ST | 06142013 | 13 | 267 | 456 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 13-267-457 | 13-1887 | 4631 18TH AVE | 06142013 | 13 | 267 | 457 WO | Work Order Comment | 1 FLUSHED THE LINE TO UNSTOP LINE |
| 13-267-457 | 13-1887 | 4631 18TH AVE | 06142013 | 13 | 267 | 457 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 13-267-458 | 13-1899 | 2710 HWY 11 SOUTH | 06172013 | 13 | 267 | 458 WO | Work Order Comment | 1 FLUSHED THE THE MAIN LINE TO UNSTOPPED LINE |
| 13-267-458 | 13-1899 | 2710 HWY 11 SOUTH | 06172013 | 13 | 267 | 458 WP | Completed Comments | 1 REPAIR SEWER LINE |
| 13-267-459 | 13-1900 | CHIP PICKERING RD/FRED CLAYTON RD | 06172013 | 13 | 267 | 459 WO | Work Order Comment | 3 13061708060118 |
| 13-267-459 | 13-1900 | CHIP PICKERING RD/FRED CLAYTON RD | 06172013 | 13 | 267 | 459 WP | Completed Comments | 1 1-12" FULL CIRCLE CLAMP |
| 13-267-459 | 13-1900 | CHIP PICKERING RD/FRED CLAYTON RD | 06172013 | 13 | 267 | 459 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 13-267-460 | 13-1908 | 4629 18TH AVE | 06172013 | 13 | 267 | 460 WO | Work Order Comment | 1 ON US |
| 13-267-460 | 13-1908 | 4629 18TH AVE | 06172013 | 13 | 267 | 460 WP | Completed Comments | 1 SMOKE SEWER |
| 13-267-461 | 13-1919 | 1210 HWY 39N | 06182013 | 13 | 267 | 461 WO | Work Order Comment | 1 NOT ON SEWER |
| 13-267-461 | 13-1919 | 1210 HWY 39N | 06182013 | 13 | 267 | 461 WP | Completed Comments | 1 SMOKE SEWER |
| 13-267-462 | 13-1920 | 1210 A HWY 39 N | 06182013 | 13 | 267 | 462 WO | Work Order Comment | 1 NOT ON SEWER |
| 13-267-462 | 13-1920 | 1210 A HWY 39 N | 06182013 | 13 | 267 | 462 WP | Completed Comments | 1 SINKHOLE |
| 13-267-463 | 13-1921 | 5504 O AVE | 06182013 | 13 | 267 | 463 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-464 | 13-1922 | 19TH ST/32ND AVE | 06182013 | 13 | 267 | 464 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-464 | 13-1922 | 19TH ST/32ND AVE | 06182013 | 13 | 267 | 464 WP | Completed Comments | 1 SEWER CAVE IN |
| 13-267-465 | 13-1923 | 12TH ST/32ND AVE | 06182013 | 13 | 267 | 465 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-465 | 13-1923 | 12TH ST/32ND AVE | 06182013 | 13 | 267 | 465 WP | Completed Comments | 1 LOCATE WATER & SEWER LINES |
| 13-267-466 | 13-1926 | 49TH AVE/COLLEGE PARK | 06182013 | 13 | 267 | 466 WO | Work Order Comment | 1 LOCATE WATER AND SEWER LINES |
| 13-267-466 | 13-1926 | 49TH AVE/COLLEGE PARK | 06182013 | 13 | 267 | 466 WP | Completed Comments | 1 CHECK MANHOLE |
| 13-267-467 | 13-1927 | 4618 32ND AVE | 06182013 | 13 | 267 | 467 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 13-267-467 | 13-1927 | 4618 32ND AVE | 06182013 | 13 | 267 | 467 WP | Completed Comments | 1 SEWER PROBLEMS/BACK UP |
| 13-267-468 | 13-1930 | 3511 3RD ST | 06192013 | 13 | 267 | 468 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 13-267-468 | 13-1930 | 3511 3RD ST | 06192013 | 13 | 267 | 468 WP | Completed Comments | 1 CAVE IN |
| 13-267-469 | 13-1942 | 19TH ST/32ND AVE | 06202013 | 13 | 267 | 469 WO | Work Order Comment | 1 REPAIRED SEWER CAVE IN |
| 13-267-469 | 13-1942 | 19TH ST/32ND AVE | 06202013 | 13 | 267 | 469 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-470 | 13-1969 | 920 OBIE CLARK DRIVE | 06242013 | 13 | 267 | 470 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 13-267-470 | 13-1969 | 920 OBIE CLARK DRIVE | 06242013 | 13 | 267 | 470 WP | Completed Comments | 1 CAVE IN |
| 13-267-471 | 13-1972 | 38TH ST/24TH AVE | 06242013 | 13 | 267 | 471 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 13-267-472 | 13-1978 | 510 49TH CT | 06242013 | 13 | 267 | 472 WO | Work Order Comment | 3 13062415201076 |
| 13-267-472 | 13-1978 | 510 49TH CT | 06242013 | 13 | 267 | 472 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-472 | 13-1978 | 510 49TH CT | 06242013 | 13 | 267 | 473 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-473 | 13-1979 | 3605 23RD AVE | 06242013 | 13 | 267 | 473 WO | Work Order Comment | 3 13062415221080 |
| 13-267-473 | 13-1979 | 3605 23RD AVE | 06242013 | 13 | 267 | 473 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-473 | 13-1979 | 3605 23RD AVE | 06242013 | 13 | 267 | 473 WP | Completed Comments | 1 MANHOLE STOPPED UP |
| 13-267-474 | 13-1982 | 2607 EDGEWOOD DRIVE | 06252013 | 13 | 267 | 474 WO | Work Order Comment | 1 ON US- FLUSHED LINE |
| 13-267-474 | 13-1982 | 2607 EDGEWOOD DRIVE | 06252013 | 13 | 267 | 474 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-475 | 13-1989 | 70TH PLACE LIFT STATION | 06252013 | 13 | 267 | 475 WO | Work Order Comment | 1 FLUSHED LINE-ON US |
| 13-267-475 | 13-1989 | 70TH PLACE LIFT STATION | 06252013 | 13 | 267 | 475 WP | Completed Comments | 1 SEWER STOPPED UP |
| 13-267-476 | 13-1998 | 541 BROOKWOOD LANE | 06262013 | 13 | 267 | 476 WO | Work Order Comment | |

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| 13-267-476 | 13-1998 | 541 BROOKWOOD LANE | 06262013 | 13 | 267 | 476 WP | Completed Comments | 1 ON US- FLUSHED LINE |
| 13-267-477 | 13-2003 | 45TH AVE/HOOPER ST | 06262013 | 13 | 267 | 477 WO | Work Order Comment | 1 CAVE IN |
| 13-267-477 | 13-2003 | 45TH AVE/HOOPER ST | 06262013 | 13 | 267 | 477 WP | Completed Comments | 1 REPAIRED CAVE IN |
| 13-267-478 | 13-2006 | 3605 23RD AVE | 06262013 | 13 | 267 | 478 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 13-267-479 | 13-2017 | 6204 D ST | 06262013 | 13 | 267 | 479 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 13-267-479 | 13-2017 | 6204 D ST | 06262013 | 13 | 267 | 479 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-480 | 13-2019 | JAYCEE SOCCER COMPLEX | 06262013 | 13 | 267 | 480 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-480 | 13-2019 | JAYCEE SOCCER COMPLEX | 06262013 | 13 | 267 | 480 WP | Completed Comments | 1 ON US-FLUSHED LINE |
| 13-267-481 | 13-2021 | 510 49TH CT | 06272013 | 13 | 267 | 481 WO | Work Order Comment | 1 CAVE IN |
| 13-267-482 | 13-2023 | 5201 16TH AVE | 06272013 | 13 | 267 | 482 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-482 | 13-2023 | 5201 16TH AVE | 06272013 | 13 | 267 | 482 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-483 | 13-2024 | ST PAUL ST/27TH AVE | 06272013 | 13 | 267 | 483 WO | Work Order Comment | 1 RAISE MANHOLE LID |
| 13-267-484 | 13-2027 | 12TH ST/32ND AVE | 06272013 | 13 | 267 | 484 WO | Work Order Comment | 1 CAVE IN |
| 13-267-484 | 13-2027 | 12TH ST/32ND AVE | 06272013 | 13 | 267 | 484 WP | Completed Comments | 1 PATCHED CUT |
| 13-267-485 | 13-2031 | 4610 29TH AVE | 06272013 | 13 | 267 | 485 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-485 | 13-2031 | 4610 29TH AVE | 06272013 | 13 | 267 | 485 WP | Completed Comments | 1 ON US |
| 13-267-486 | 13-2032 | 31ST AVE/41ST ST | 06272013 | 13 | 267 | 486 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-486 | 13-2032 | 31ST AVE/41ST ST | 06272013 | 13 | 267 | 486 WO | Work Order Comment | 3 13062710100386 |
| 13-267-486 | 13-2032 | 31ST AVE/41ST ST | 06272013 | 13 | 267 | 486 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-487 | 13-2049 | 4202 N. HILLS ST | 07012013 | 13 | 267 | 487 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-487 | 13-2049 | 4202 N. HILLS ST | 07012013 | 13 | 267 | 487 WP | Completed Comments | 4 SUSAN GRUNO 601-527-2404 |
| 13-267-487 | 13-2049 | 4202 N. HILLS ST | 07012013 | 13 | 267 | 487 WO | Work Order Comment | 1 ON THE CUSTOMER |
| 13-267-488 | 13-2050 | 5220 LAKELAND DRIVE | 07012013 | 13 | 267 | 488 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-488 | 13-2050 | 5220 LAKELAND DRIVE | 07012013 | 13 | 267 | 488 WP | Completed Comments | 1 REFER TO CREW TO REPAIR SEWER LATERAL |
| 13-267-489 | 13-2057 | 503 E STREET | 07022013 | 13 | 267 | 489 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-490 | 13-2077 | 5220 LAKEWOOD DRIVE | 07032013 | 13 | 267 | 490 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-490 | 13-2077 | 5220 LAKEWOOD DRIVE | 07032013 | 13 | 267 | 490 WP | Completed Comments | 1 NO SEWER PROBLEMS/GROUND WATER |
| 13-267-491 | 13-2082 | 503 E STREET | 07032013 | 13 | 267 | 491 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-491 | 13-2082 | 503 E STREET | 07032013 | 13 | 267 | 491 WP | Completed Comments | 1 REPAIRED SEWER LINE |
| 13-267-492 | 13-2100 | 4510 26TH ST | 07082013 | 13 | 267 | 492 WO | Work Order Comment | 1 ASSIST STREET DIV |
| 13-267-492 | 13-2100 | 4510 26TH ST | 07082013 | 13 | 267 | 492 WP | Completed Comments | 1 ON THE CUST |
| 13-267-493 | 13-2119 | 208 19TH AVE | 07092013 | 13 | 267 | 493 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-493 | 13-2119 | 208 19TH AVE | 07092013 | 13 | 267 | 493 WP | Completed Comments | 1 ON THE CUST |
| 13-267-494 | 13-2120 | 3501 45TH ST | 07092013 | 13 | 267 | 494 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-494 | 13-2120 | 3501 45TH ST | 07092013 | 13 | 267 | 494 WP | Completed Comments | 1 ON US/ UNSTOPPED MAIN LINE TO RESOLVE ISSUE |
| 13-267-495 | 13-2122 | BONITA DRIVE | 07092013 | 13 | 267 | 495 WO | Work Order Comment | 1 REPAIR MANHOLE CASKING |
| 13-267-496 | 13-2135 | 42ND AVE/21ST-22ND ST | 07102013 | 13 | 267 | 496 WO | Work Order Comment | 1 MANHOLE LID MISSING |
| 13-267-496 | 13-2135 | 42ND AVE/21ST-22ND ST | 07102013 | 13 | 267 | 496 WP | Completed Comments | 1 REPLACED 1 LID |
| 13-267-497 | 13-2139 | 30TH AVE/36TH ST | 07102013 | 13 | 267 | 497 WO | Work Order Comment | 1 CAVE IN |
| 13-267-497 | 13-2139 | 30TH AVE/36TH ST | 07102013 | 13 | 267 | 497 WP | Completed Comments | 1 TURNED OVER TO STREET DIV |
| 13-267-498 | 13-2149 | 5515 CHEROKEE RD | 07112013 | 13 | 267 | 498 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-498 | 13-2149 | 5515 CHEROKEE RD | 07112013 | 13 | 267 | 498 WP | Completed Comments | 1 ON US/ RESOLVED ISSUE |
| 13-267-499 | 13-2154 | 4411 39TH PLACE | 07112013 | 13 | 267 | 499 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-499 | 13-2154 | 4411 39TH PLACE | 07112013 | 13 | 267 | 499 WP | Completed Comments | 1 ON THE CUST |
| 13-267-500 | 13-2155 | 19TH ST/32ND AVE | 07112013 | 13 | 267 | 500 WO | Work Order Comment | 1 FLUSH MANHOLE |
| 13-267-500 | 13-2155 | 19TH ST/32ND AVE | 07112013 | 13 | 267 | 500 WP | Completed Comments | 1 ON THE US/UNSTOPPED MANHOLE TO RESOLVE ISSUE |
| 13-267-501 | 13-2156 | 2211 34TH AVE | 07112013 | 13 | 267 | 501 WO | Work Order Comment | 1 ROOTS IN LINE |
| 13-267-501 | 13-2156 | 2211 34TH AVE | 07112013 | 13 | 267 | 501 WP | Completed Comments | 1 REMOVED ROOTS FROM SEWER LINE |
| 13-267-502 | 13-2174 | 1835 COUNTRY CLUB DRIVE | 07122013 | 13 | 267 | 502 WO | Work Order Comment | 1 CAVE IN |
| 13-267-502 | 13-2174 | 1835 COUNTRY CLUB DRIVE | 07122013 | 13 | 267 | 502 WP | Completed Comments | 3 1307121214260817 |
| 13-267-502 | 13-2174 | 1835 COUNTRY CLUB DRIVE | 07122013 | 13 | 267 | 502 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-503 | 13-2176 | 37TH AVE/8TH-9TH ST | 07122013 | 13 | 267 | 503 WO | Work Order Comment | 1 CAVE INS |
| 13-267-503 | 13-2176 | 37TH AVE/8TH-9TH ST | 07122013 | 13 | 267 | 503 WP | Completed Comments | 3 0712201314400861 |
| 13-267-503 | 13-2176 | 37TH AVE/8TH-9TH ST | 07122013 | 13 | 267 | 503 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-504 | 13-2189 | 2708 24TH ST | 07152013 | 13 | 267 | 504 WO | Work Order Comment | 1 CAVE IN |
| 13-267-504 | 13-2189 | 2708 24TH ST | 07152013 | 13 | 267 | 504 WP | Completed Comments | 3 13071511300633 |
| 13-267-504 | 13-2189 | 2708 24TH ST | 07152013 | 13 | 267 | 504 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-505 | 13-2190 | 3818 29TH STREET | 07152013 | 13 | 267 | 505 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-505 | 13-2190 | 3818 29TH STREET | 07152013 | 13 | 267 | 505 WP | Completed Comments | 1 ON THE CUST |

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| 13-267-506 | 13-2191 | 5515 CHEROKEE RD | 07152013 | 13 | 267 | 506 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-506 | 13-2191 | 5515 CHEROKEE RD | 07152013 | 13 | 267 | 506 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-507 | 13-2213 | 26TH ST/43RD AVE | 07162013 | 13 | 267 | 507 WO | Work Order Comment | 1 FLUSH LINE |
| 13-267-507 | 13-2213 | 26TH ST/43RD AVE | 07162013 | 13 | 267 | 507 WP | Completed Comments | 1 FLUSHED MAIN LINE |
| 13-267-508 | 13-2224 | 1835 COUNTRY CLUB DRIVE | 07172013 | 13 | 267 | 508 WO | Work Order Comment | 1 CAVE IN |
| 13-267-508 | 13-2224 | 1835 COUNTRY CLUB DRIVE | 07172013 | 13 | 267 | 508 WP | Completed Comments | 1 2 8" C/PVC MISSING COUPLING |
| 13-267-508 | 13-2224 | 1835 COUNTRY CLUB DRIVE | 07172013 | 13 | 267 | 508 WP | Completed Comments | 2 1-8 WYE |
| 13-267-508 | 13-2224 | 1835 COUNTRY CLUB DRIVE | 07172013 | 13 | 267 | 508 WP | Completed Comments | 3 1-6" C/PVC MISSION COUPLING |
| 13-267-508 | 13-2224 | 1835 COUNTRY CLUB DRIVE | 07172013 | 13 | 267 | 508 WP | Completed Comments | 4 1 SEC 8" SCH 40 PIPE |
| 13-267-509 | 13-2230 | 1902 12TH AVE | 07172013 | 13 | 267 | 509 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-509 | 13-2230 | 1902 12TH AVE | 07172013 | 13 | 267 | 509 WP | Completed Comments | 1 NO PROB FOUND |
| 13-267-510 | 13-2231 | 1113 6TH ST | 07172013 | 13 | 267 | 510 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-510 | 13-2231 | 1113 6TH ST | 07172013 | 13 | 267 | 510 WP | Completed Comments | 1 67/8 STATED IT WAS A WATER LEAK AND NOT SEWER PROBLEM. |
| 13-267-511 | 13-2232 | 4204 33RD AVE | 07172013 | 13 | 267 | 511 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-511 | 13-2232 | 4204 33RD AVE | 07172013 | 13 | 267 | 511 WP | Completed Comments | 1 ON THE CUST |
| 13-267-512 | 13-2234 | 2436 HIGHLAND AVE | 07172013 | 13 | 267 | 512 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-512 | 13-2234 | 2436 HIGHLAND AVE | 07172013 | 13 | 267 | 512 WP | Completed Comments | 3 13071715200968 |
| 13-267-512 | 13-2234 | 2436 HIGHLAND AVE | 07172013 | 13 | 267 | 512 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-513 | 13-2236 | 220 MLK JR DRIVE | 07172013 | 13 | 267 | 513 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-513 | 13-2236 | 220 MLK JR DRIVE | 07172013 | 13 | 267 | 513 WP | Completed Comments | 1 TURNED OVER TO STREET DEPT |
| 13-267-514 | 13-2245 | 32ND AVE/17TH ST | 07182013 | 13 | 267 | 514 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-514 | 13-2245 | 32ND AVE/17TH ST | 07182013 | 13 | 267 | 514 WP | Completed Comments | 1 FLUSHED THE LINE |
| 13-267-515 | 13-2254 | 551 64TH AVE | 07182013 | 13 | 267 | 515 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-515 | 13-2254 | 551 64TH AVE | 07182013 | 13 | 267 | 515 WP | Completed Comments | 3 13071810510519 |
| 13-267-515 | 13-2254 | 551 64TH AVE | 07182013 | 13 | 267 | 515 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-516 | 13-2257 | 5004 1ST ST | 07182013 | 13 | 267 | 516 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-516 | 13-2257 | 5004 1ST ST | 07182013 | 13 | 267 | 516 WP | Completed Comments | 3 13071814200767 67/3 CALLED IN LOCATE-REPAIR SEWER LINE |
| 13-267-516 | 13-2257 | 5004 1ST ST | 07182013 | 13 | 267 | 516 WP | Completed Comments | 1 SEWER LINE BROKE DOW/REFERRED TO SUPT FOR CREW TO REPAIR |
| 13-267-517 | 13-2259 | 3602 35TH AVE | 07182013 | 13 | 267 | 517 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-517 | 13-2259 | 3602 35TH AVE | 07182013 | 13 | 267 | 517 WP | Completed Comments | 3 13071815000859 |
| 13-267-517 | 13-2259 | 3602 35TH AVE | 07182013 | 13 | 267 | 517 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-518 | 13-2260 | 3517 35TH AVE | 07182013 | 13 | 267 | 518 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-518 | 13-2260 | 3517 35TH AVE | 07182013 | 13 | 267 | 518 WP | Completed Comments | 3 13071814500832 |
| 13-267-518 | 13-2260 | 3517 35TH AVE | 07182013 | 13 | 267 | 518 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-519 | 13-2266 | 2436 HIGHLAND AVE | 07192013 | 13 | 267 | 519 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-519 | 13-2266 | 2436 HIGHLAND AVE | 07192013 | 13 | 267 | 519 WP | Completed Comments | 1 PROBLEM NOT ON CITY |
| 13-267-520 | 13-2267 | 37TH AVE/8TH-9TH ST | 07192013 | 13 | 267 | 520 WO | Work Order Comment | 1 CAVE INS |
| 13-267-521 | 13-2268 | 2708 24TH ST | 07192013 | 13 | 267 | 521 WO | Work Order Comment | 1 CAVE IN |
| 13-267-521 | 13-2268 | 2708 24TH ST | 07192013 | 13 | 267 | 521 WP | Completed Comments | 1 NO SEWER CAVE IN FOUND |
| 13-267-522 | 13-2275 | 19TH ST/BETWEEN 26TH-28TH AVE | 07192013 | 13 | 267 | 522 WO | Work Order Comment | 1 SEWER PROBLEMS/LINE STOPPED UP |
| 13-267-522 | 13-2275 | 19TH ST/BETWEEN 26TH-28TH AVE | 07192013 | 13 | 267 | 522 WP | Completed Comments | 1 ON US/RESOLVED ISSUE |
| 13-267-523 | 13-2283 | 2436 HIGHLAND AVE | 07222013 | 13 | 267 | 523 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-523 | 13-2283 | 2436 HIGHLAND AVE | 07222013 | 13 | 267 | 523 WP | Completed Comments | 1 SEWER LINE BROKE DOWN/REFERRED TO SUPT FOR CREW TO REPAIR |
| 13-267-524 | 13-2284 | 3212 NHS | 07222013 | 13 | 267 | 524 WO | Work Order Comment | 1 ROOTS IN MANHOLE |
| 13-267-524 | 13-2284 | 3212 NHS | 07222013 | 13 | 267 | 524 WP | Completed Comments | 1 REMOVED ROOTS FROM MANHOLE |
| 13-267-525 | 13-2294 | 1623 PINEVIEW CIRCLE | 07222013 | 13 | 267 | 525 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-525 | 13-2294 | 1623 PINEVIEW CIRCLE | 07222013 | 13 | 267 | 525 WP | Completed Comments | 1 SEWER BROKE DOWN/RUNNING IN CREEK/ RESOLVED ISSUE |
| 13-267-526 | 13-2299 | 2421 33RD AVE | 07222013 | 13 | 267 | 526 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-526 | 13-2299 | 2421 33RD AVE | 07222013 | 13 | 267 | 526 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP MAIN/PROBLEM RESOLVED |
| 13-267-527 | 13-2306 | 1623 PINEVIEW CIRCLE | 07232013 | 13 | 267 | 527 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-528 | 13-2307 | 256 KNIGHT PARKER RD | 07232013 | 13 | 267 | 528 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-528 | 13-2307 | 256 KNIGHT PARKER RD | 07232013 | 13 | 267 | 528 WP | Completed Comments | 1 NO SEWER |
| 13-267-529 | 13-2308 | 804 70TH PLACE | 07232013 | 13 | 267 | 529 WO | Work Order Comment | 1 SMOKE SEWER LINE |
| 13-267-530 | 13-2309 | 2407 HWY 19N | 07232013 | 13 | 267 | 530 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-531 | 13-2310 | 328 N. HILLS ST | 07232013 | 13 | 267 | 531 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-532 | 13-2311 | 5814 WESTGATE HILLS DR | 07232013 | 13 | 267 | 532 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 13-267-532 | 13-2311 | 5814 WESTGATE HILLS DR | 07232013 | 13 | 267 | 532 WO | Work Order Comment | 3 13072307560089 |
| 13-267-532 | 13-2311 | 5814 WESTGATE HILLS DR | 07232013 | 13 | 267 | 532 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-533 | 13-2320 | 3005 28TH ST | 07232013 | 13 | 267 | 533 WO | Work Order Comment | 1 SEWER REPAIR |

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| 13-267-533 | 13-2320 | 3005 28TH ST | 07232013 | 13 | 267 | 533 WO | Work Order Comment | 3 13072314490891 |
| 13-267-533 | 13-2320 | 3005 28TH ST | 07232013 | 13 | 267 | 533 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-534 | 13-2331 | 5814 WESTGATE HILLS DRIVE | 07242013 | 13 | 267 | 534 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 13-267-534 | 13-2331 | 5814 WESTGATE HILLS DRIVE | 07242013 | 13 | 267 | 534 WP | Completed Comments | 1 1 SEC 8" SEWER PIPE |
| 13-267-534 | 13-2331 | 5814 WESTGATE HILLS DRIVE | 07242013 | 13 | 267 | 534 WP | Completed Comments | 2 2 8" MISSION COUPLING |
| 13-267-535 | 13-2338 | 2620 19TH ST | 07242013 | 13 | 267 | 535 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-535 | 13-2338 | 2620 19TH ST | 07242013 | 13 | 267 | 535 WP | Completed Comments | 1 ON THE US/UNSTOPPED SEWER |
| 13-267-536 | 13-2354 | 210 22ND AVE S | 07252013 | 13 | 267 | 536 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-536 | 13-2354 | 210 22ND AVE S | 07252013 | 13 | 267 | 536 WP | Completed Comments | 1 ON THE CUST |
| 13-267-537 | 13-2361 | 551 64TH AVE | 07262013 | 13 | 267 | 537 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-537 | 13-2361 | 551 64TH AVE | 07262013 | 13 | 267 | 537 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 13-267-538 | 13-2362 | 503 E STREET | 07262013 | 13 | 267 | 538 WO | Work Order Comment | 1 RAISE MANHOLE |
| 13-267-538 | 13-2362 | 503 E STREET | 07262013 | 13 | 267 | 538 WP | Completed Comments | 1 RAISED MANHOLE |
| 13-267-539 | 13-2367 | 1629 S. FRONTAGE RD | 07262013 | 13 | 267 | 539 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-539 | 13-2367 | 1629 S. FRONTAGE RD | 07262013 | 13 | 267 | 539 WO | Work Order Comment | 3 13072614290664 |
| 13-267-539 | 13-2367 | 1629 S. FRONTAGE RD | 07262013 | 13 | 267 | 539 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-540 | 13-2368 | 4629 18TH AVE | 07262013 | 13 | 267 | 540 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-540 | 13-2368 | 4629 18TH AVE | 07262013 | 13 | 267 | 540 WP | Completed Comments | 1 ON THE CUST |
| 13-267-541 | 13-2397 | 2436 HIGHLAND AVE | 07302013 | 13 | 267 | 541 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 13-267-541 | 13-2397 | 2436 HIGHLAND AVE | 07302013 | 13 | 267 | 541 WO | Work Order Comment | 3 13072910360481 |
| 13-267-541 | 13-2397 | 2436 HIGHLAND AVE | 07302013 | 13 | 267 | 541 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-542 | 13-2409 | 4212 8TH ST | 07302013 | 13 | 267 | 542 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-542 | 13-2409 | 4212 8TH ST | 07302013 | 13 | 267 | 542 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 13-267-543 | 13-2410 | 1516 49TH AVE | 07302013 | 13 | 267 | 543 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-543 | 13-2410 | 1516 49TH AVE | 07302013 | 13 | 267 | 543 WP | Completed Comments | 1 SEWER PROBLEMS ON CUSTOMER |
| 13-267-544 | 13-2411 | 1629 S FRONTAGE RD | 07302013 | 13 | 267 | 544 WO | Work Order Comment | 1 6" SEWER TAP |
| 13-267-544 | 13-2411 | 1629 S FRONTAGE RD | 07302013 | 13 | 267 | 544 WP | Completed Comments | 1 2 BAG CONCRETE; 1" BACK FLOW ; 1 SECTION 6" SEWER PIPE; 1" C |
| 13-267-544 | 13-2411 | 1629 S FRONTAGE RD | 07302013 | 13 | 267 | 544 WP | Completed Comments | 3 ON US/FLUSHED LINE |
| 13-267-544 | 13-2411 | 1629 S FRONTAGE RD | 07302013 | 13 | 267 | 544 WP | Completed Comments | 2 URB STOP; 10' 1" COPPER PIPE; METER BOX; 1" METER |
| 13-267-545 | 13-2422 | HWY 45/EAST PLANT | 07302013 | 13 | 267 | 545 WO | Work Order Comment | 1 LOCATE SEWER LINE |
| 13-267-545 | 13-2422 | HWY 45/EAST PLANT | 07302013 | 13 | 267 | 545 WP | Completed Comments | 1 LOCATED SEWER LINE |
| 13-267-546 | 13-2423 | 1305 48TH AVE | 07302013 | 13 | 267 | 546 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-546 | 13-2423 | 1305 48TH AVE | 07302013 | 13 | 267 | 546 WP | Completed Comments | 1 ON THE CUST |
| 13-267-547 | 13-2424 | VILLAGE FAIR MALL LIFT STATION | 07302013 | 13 | 267 | 547 WO | Work Order Comment | 1 REPAIRING LIFT STATION |
| 13-267-547 | 13-2424 | VILLAGE FAIR MALL LIFT STATION | 07302013 | 13 | 267 | 547 WP | Completed Comments | 1 REPAIRED MAN HOLE |
| 13-267-548 | 13-2430 | 5218 LAKEWOOD DR | 07302013 | 13 | 267 | 548 WO | Work Order Comment | 1 REPAIR SEWER |
| 13-267-548 | 13-2430 | 5218 LAKEWOOD DR | 07302013 | 13 | 267 | 548 WO | Work Order Comment | 3 13073015211023 |
| 13-267-548 | 13-2430 | 5218 LAKEWOOD DR | 07302013 | 13 | 267 | 548 WO | Work Order Comment | 4 13080911290518 |
| 13-267-548 | 13-2430 | 5218 LAKEWOOD DR | 07302013 | 13 | 267 | 548 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-549 | 13-2448 | 3005 28TH ST | 07312013 | 13 | 267 | 549 WO | Work Order Comment | 1 METER REPAIR |
| 13-267-549 | 13-2448 | 3005 28TH ST | 07312013 | 13 | 267 | 549 WP | Completed Comments | 1 CHANGED OUT METER |
| 13-267-550 | 13-2449 | HIGHLAND PARK - SWIMMING POOL | 07312013 | 13 | 267 | 550 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-550 | 13-2449 | HIGHLAND PARK - SWIMMING POOL | 07312013 | 13 | 267 | 550 WP | Completed Comments | 1 ON THE CUST |
| 13-267-551 | 13-2450 | VILLAGE FAIR MALL | 07312013 | 13 | 267 | 551 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 13-267-552 | 13-2451 | 7910 OLD 8TH ST RD | 07312013 | 13 | 267 | 552 WO | Work Order Comment | 1 MANHOLE LID AND RING MISSING |
| 13-267-552 | 13-2451 | 7910 OLD 8TH ST RD | 07312013 | 13 | 267 | 552 WP | Completed Comments | 1 ON US/REPAIRED MANHOLE |
| 13-267-553 | 13-2452 | 2669 ST ANDREWS ST | 07312013 | 13 | 267 | 553 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-553 | 13-2452 | 2669 ST ANDREWS ST | 07312013 | 13 | 267 | 553 WO | Work Order Comment | 3 13073115440986 |
| 13-267-553 | 13-2452 | 2669 ST ANDREWS ST | 07312013 | 13 | 267 | 553 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-554 | 13-2458 | 5004 1ST STREET | 08012013 | 13 | 267 | 554 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-554 | 13-2458 | 5004 1ST STREET | 08012013 | 13 | 267 | 554 WP | Completed Comments | 1 VOID-DUPLICATE WO |
| 13-267-555 | 13-2459 | 3517 35TH AVE | 08012013 | 13 | 267 | 555 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-555 | 13-2459 | 3517 35TH AVE | 08012013 | 13 | 267 | 555 WP | Completed Comments | 1 67/8 - FLUSHED LINE |
| 13-267-556 | 13-2460 | 3602 35TH AVE | 08012013 | 13 | 267 | 556 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-556 | 13-2460 | 3602 35TH AVE | 08012013 | 13 | 267 | 556 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 13-267-557 | 13-2461 | 4156 A PLACE | 08012013 | 13 | 267 | 557 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-557 | 13-2461 | 4156 A PLACE | 08012013 | 13 | 267 | 557 WP | Completed Comments | 1 ON THE CUST |
| 13-267-558 | 13-2462 | 1516 49TH AVE | 08012013 | 13 | 267 | 558 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-558 | 13-2462 | 1516 49TH AVE | 08012013 | 13 | 267 | 558 WP | Completed Comments | 1 ON THE CUST |

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| 13-267-559 | 13-2469 | HAMILTON AVE/SOWASHEE ST | 08012013 | 13 | 267 | 559 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-559 | 13-2469 | HAMILTON AVE/SOWASHEE ST | 08012013 | 13 | 267 | 559 WP | Completed Comments | 1 ON US/RESOLVED ISSUE |
| 13-267-560 | 13-2471 | 5007 DRUID LANE | 08012013 | 13 | 267 | 560 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-560 | 13-2471 | 5007 DRUID LANE | 08012013 | 13 | 267 | 560 WO | Work Order Comment | 3 13080110400498 |
| 13-267-560 | 13-2471 | 5007 DRUID LANE | 08012013 | 13 | 267 | 560 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-561 | 13-2482 | 5353 10TH AVE | 08022013 | 13 | 267 | 561 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 13-267-561 | 13-2482 | 5353 10TH AVE | 08022013 | 13 | 267 | 561 WP | Completed Comments | 1 FLUSHED MAIN LINE TO RESOLVE ISSUE |
| 13-267-562 | 13-2483 | 33RD ST/30TH AVE | 08022013 | 13 | 267 | 562 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-562 | 13-2483 | 33RD ST/30TH AVE | 08022013 | 13 | 267 | 562 WP | Completed Comments | 1 ON THE CUST |
| 13-267-562 | 13-2483 | 33RD ST/30TH AVE | 08052013 | 13 | 267 | 563 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-563 | 13-2501 | 5014 39TH AVE | 08052013 | 13 | 267 | 563 WP | Completed Comments | 1 ON THE CUST |
| 13-267-563 | 13-2501 | 5014 39TH AVE | 08052013 | 13 | 267 | 564 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-564 | 13-2502 | 1902 12TH AVE | 08052013 | 13 | 267 | 564 WP | Completed Comments | 1 NO PROB FOUND/MAIN OPEN AND CLEAR |
| 13-267-564 | 13-2502 | 1902 12TH AVE | 08052013 | 13 | 267 | 565 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-565 | 13-2503 | 2204 1/2 32ND AVE | 08052013 | 13 | 267 | 565 WP | Completed Comments | 1 SEWER WAS STOPPED UP AND RUNNING INTO CREEK/RESOLVED THE |
| 13-267-565 | 13-2503 | 2204 1/2 32ND AVE | 08052013 | 13 | 267 | 565 WP | Completed Comments | 2 PROBLEM |
| 13-267-565 | 13-2503 | 2204 1/2 32ND AVE | 08052013 | 13 | 267 | 566 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-566 | 13-2504 | 2669 ST ANDREWS ST | 08052013 | 13 | 267 | 567 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-567 | 13-2507 | 5007 DRUID LANE | 08052013 | 13 | 267 | 567 WP | Completed Comments | 1 4" SEWER TAPPING SADDLE; 1 SEC OF 4" SEWER PIPE |
| 13-267-567 | 13-2507 | 5007 DRUID LANE | 08052013 | 13 | 267 | 568 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-568 | 13-2508 | 3009 40TH ST | 08052013 | 13 | 267 | 568 WO | Work Order Comment | 3 13080509540417 |
| 13-267-568 | 13-2508 | 3009 40TH ST | 08052013 | 13 | 267 | 568 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-568 | 13-2508 | 3009 40TH ST | 08052013 | 13 | 267 | 569 WO | Work Order Comment | 1 WATER LEAK |
| 13-267-569 | 13-2511 | HOOPER ST/39TH AVE | 08052013 | 13 | 267 | 569 WO | Work Order Comment | 3 13080515461109 |
| 13-267-569 | 13-2511 | HOOPER ST/39TH AVE | 08052013 | 13 | 267 | 569 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-570 | 13-2521 | 6120 32ND ST | 08062013 | 13 | 267 | 570 WO | Work Order Comment | 1 CAVE IN |
| 13-267-570 | 13-2521 | 6120 32ND ST | 08062013 | 13 | 267 | 570 WP | Completed Comments | 3 13080615365878 |
| 13-267-570 | 13-2521 | 6120 32ND ST | 08062013 | 13 | 267 | 571 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-571 | 13-2523 | 2426 HIGHLAND AVE | 08062013 | 13 | 267 | 571 WP | Completed Comments | 1 SEWER LINE REPAIR |
| 13-267-571 | 13-2523 | 2426 HIGHLAND AVE | 08062013 | 13 | 267 | 572 WO | Work Order Comment | 1 REPAIRED SEWER LINE |
| 13-267-572 | 13-2525 | 1106 48TH AVE | 08062013 | 13 | 267 | 572 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-572 | 13-2525 | 1106 48TH AVE | 08072013 | 13 | 267 | 573 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-573 | 13-2535 | 5504 O AVE | 08072013 | 13 | 267 | 573 WP | Completed Comments | 1 SMOKE SEWER |
| 13-267-573 | 13-2535 | 5504 O AVE | 08072013 | 13 | 267 | 574 WO | Work Order Comment | 1 NO SEWER CAVE IN |
| 13-267-574 | 13-2539 | VALLEY VIEW APTS | 08072013 | 13 | 267 | 574 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-574 | 13-2539 | VALLEY VIEW APTS | 08082013 | 13 | 267 | 575 WO | Work Order Comment | 1 ON US/RESOLVED ISSUE |
| 13-267-575 | 13-2553 | 3009 40TH ST | 08082013 | 13 | 267 | 575 WP | Completed Comments | 1 SEWER REPAIR |
| 13-267-575 | 13-2553 | 3009 40TH ST | 08082013 | 13 | 267 | 575 WP | Completed Comments | 1 REPAIRED WATER LEAK |
| 13-267-575 | 13-2553 | 3009 40TH ST | 08082013 | 13 | 267 | 576 WO | Work Order Comment | 2 3/4 CURB STOP |
| 13-267-576 | 13-2561 | 3214 63RD PLACE | 08082013 | 13 | 267 | 576 WP | Completed Comments | 1 SEWER BACKUP |
| 13-267-576 | 13-2561 | 3214 63RD PLACE | 08092013 | 13 | 267 | 577 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-577 | 13-2567 | 3001 36TH ST | 08092013 | 13 | 267 | 578 WO | Work Order Comment | 1 CAVE IN |
| 13-267-578 | 13-2569 | 6120 32ND ST | 08092013 | 13 | 267 | 578 WP | Completed Comments | 1 CAVE IN |
| 13-267-578 | 13-2569 | 6120 32ND ST | 08122013 | 13 | 267 | 579 WO | Work Order Comment | 1 REPAIRED CAVE IN |
| 13-267-579 | 13-2590 | EAST PLANT/HWY 45 | 08122013 | 13 | 267 | 579 WP | Completed Comments | 1 LOCATE SEWER LINE |
| 13-267-579 | 13-2590 | EAST PLANT/HWY 45 | 08122013 | 13 | 267 | 580 WO | Work Order Comment | 1 LOCATE SEWER LINE FOR EAST PLANT 4" |
| 13-267-580 | 13-2594 | 3217 52ND ST | 08122013 | 13 | 267 | 580 WP | Completed Comments | 1 SEWAGE IN CREEK |
| 13-267-580 | 13-2594 | 3217 52ND ST | 08132013 | 13 | 267 | 581 WO | Work Order Comment | 1 ON US/ FLUSHED MAIN LINE TO RESOLVE ISSUE |
| 13-267-581 | 13-2606 | 2669 ST ANDREWS ST | 08132013 | 13 | 267 | 581 WP | Completed Comments | 1 WATER TAP |
| 13-267-581 | 13-2606 | 2669 ST ANDREWS ST | 08132013 | 13 | 267 | 582 WO | Work Order Comment | 1 COMPLETED WATER TAP |
| 13-267-582 | 13-2607 | 3004 26TH ST | 08132013 | 13 | 267 | 582 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-582 | 13-2607 | 3004 26TH ST | 08142013 | 13 | 267 | 583 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-583 | 13-2613 | 5912 19TH AVE | 08142013 | 13 | 267 | 583 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-583 | 13-2613 | 5912 19TH AVE | 08142013 | 13 | 267 | 583 WP | Completed Comments | 3 13081409450247 |
| 13-267-583 | 13-2613 | 5912 19TH AVE | 08142013 | 13 | 267 | 584 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-584 | 13-2615 | 2204 11TH AVE | 08142013 | 13 | 267 | 584 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-584 | 13-2615 | 2204 11TH AVE | 08142013 | 13 | 267 | 584 WP | Completed Comments | 3 13081411290442 |
| 13-267-584 | 13-2615 | 2204 11TH AVE | 08142013 | 13 | 267 | 585 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-585 | 13-2618 | 214 48TH AVE | 08142013 | 13 | 267 | | | 1 SEWER BACK UP |

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| 13-267-585 | 13-2618 | 214 48TH AVE | 08142013 | 13 | 267 | 585 WP | Completed Comments | 1 ON THE CUST |
| 13-267-586 | 13-2630 | 5218 LAKEWOOD DRIVE | 08152013 | 13 | 267 | 586 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-587 | 13-2638 | CRACKER BARRELL | 08152013 | 13 | 267 | 587 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-587 | 13-2638 | CRACKER BARRELL | 08152013 | 13 | 267 | 587 WP | Completed Comments | 1 MAIN LINE STOPPED UP/FLUSHED LINE |
| 13-267-588 | 13-2646 | HWY 39 N LIFT STATION #2 | 08162013 | 13 | 267 | 588 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-588 | 13-2646 | HWY 39 N LIFT STATION #2 | 08162013 | 13 | 267 | 588 WO | Work Order Comment | 3 13081609380271 LOCATE TO REPAIR SEWER |
| 13-267-588 | 13-2646 | HWY 39 N LIFT STATION #2 | 08162013 | 13 | 267 | 588 WP | Completed Comments | 1 SMOKED SEWER/CALLED IN LOCATE |
| 13-267-589 | 13-2647 | 65TH AVE LIFT STATION | 08162013 | 13 | 267 | 589 WO | Work Order Comment | 1 DRESS UP |
| 13-267-589 | 13-2647 | 65TH AVE LIFT STATION | 08162013 | 13 | 267 | 589 WP | Completed Comments | 1 DRESSED UP AROUND LIFT STATION |
| 13-267-590 | 13-2650 | 1ST ST/48TH AVE-50TH AVE | 08162013 | 13 | 267 | 590 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-590 | 13-2650 | 1ST ST/48TH AVE-50TH AVE | 08162013 | 13 | 267 | 590 WP | Completed Comments | 1 MAIN LINE STOPPED UP/FLUSHED LINE |
| 13-267-591 | 13-2662 | 210 22ND AVE SOUTH | 08192013 | 13 | 267 | 591 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-591 | 13-2662 | 210 22ND AVE SOUTH | 08192013 | 13 | 267 | 591 WP | Completed Comments | 3 13081913280747 |
| 13-267-591 | 13-2662 | 210 22ND AVE SOUTH | 08192013 | 13 | 267 | 591 WO | Work Order Comment | 1 CALLED IN LOCATE/REPAIR SEWER |
| 13-267-592 | 13-2678 | JAYCEE SOCCER COMPLEX | 08192013 | 13 | 267 | 592 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-592 | 13-2678 | JAYCEE SOCCER COMPLEX | 08192013 | 13 | 267 | 592 WP | Completed Comments | 1 MAIN LINE STOPPED UP/FLUSHED LINE |
| 13-267-593 | 13-2679 | MHS-RAY STADIUM | 08192013 | 13 | 267 | 593 WO | Work Order Comment | 1 SINKHOLE AROUND MANHOLE |
| 13-267-593 | 13-2679 | MHS-RAY STADIUM | 08192013 | 13 | 267 | 593 WP | Completed Comments | 1 TURNED OVER TO STREET DEPT/REPAIR STORM DRAIN |
| 13-267-594 | 13-2680 | HWY 39N LIFT STATION #2 | 08202013 | 13 | 267 | 594 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-594 | 13-2680 | HWY 39N LIFT STATION #2 | 08202013 | 13 | 267 | 594 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-595 | 13-2683 | 2436 HIGHLAND AVE | 08202013 | 13 | 267 | 595 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-595 | 13-2683 | 2436 HIGHLAND AVE | 08202013 | 13 | 267 | 595 WP | Completed Comments | 1 REPAIRED SEWER |
| 13-267-596 | 13-2689 | 5912 19TH AVE | 08212013 | 13 | 267 | 596 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-596 | 13-2689 | 5912 19TH AVE | 08212013 | 13 | 267 | 596 WP | Completed Comments | 1 SEWER TAP |
| 13-267-597 | 13-2692 | 35T AVE/18TH ST | 08212013 | 13 | 267 | 597 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 13-267-597 | 13-2692 | 35T AVE/18TH ST | 08212013 | 13 | 267 | 597 WP | Completed Comments | 3 13082107430040 |
| 13-267-597 | 13-2692 | 35T AVE/18TH ST | 08212013 | 13 | 267 | 597 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-598 | 13-2701 | 717 55TH ST | 08212013 | 13 | 267 | 598 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-598 | 13-2701 | 717 55TH ST | 08212013 | 13 | 267 | 598 WP | Completed Comments | 1 ON THE CUST |
| 13-267-599 | 13-2703 | 210 22ND AVE-GSNB | 08222013 | 13 | 267 | 599 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-600 | 13-2706 | 2204 11TH AVE | 08222013 | 13 | 267 | 600 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-600 | 13-2706 | 2204 11TH AVE | 08222013 | 13 | 267 | 600 WP | Completed Comments | 1 2" WATER LINE, REPAIRED 2-3" CLAMPS |
| 13-267-601 | 13-2707 | 3517 35TH AVE | 08222013 | 13 | 267 | 601 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-601 | 13-2707 | 3517 35TH AVE | 08222013 | 13 | 267 | 601 WP | Completed Comments | 1 REPAIRED- GROUND HAD SETTLED |
| 13-267-602 | 13-2710 | 5218 LAKEWOOD DR | 08222013 | 13 | 267 | 602 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-602 | 13-2710 | 5218 LAKEWOOD DR | 08222013 | 13 | 267 | 602 WP | Completed Comments | 3 13082210050401 |
| 13-267-602 | 13-2710 | 5218 LAKEWOOD DR | 08222013 | 13 | 267 | 602 WO | Work Order Comment | 1 UPDATED LOCATE INFO FOR SEWER REPAIR |
| 13-267-603 | 13-2723 | 31ST AVE/18TH ST | 08232013 | 13 | 267 | 603 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-603 | 13-2723 | 31ST AVE/18TH ST | 08232013 | 13 | 267 | 603 WP | Completed Comments | 1 REPAIRED SEWER-SPLICED 4" SEWER PIPE, 2-8" CLAY TO PVC |
| 13-267-603 | 13-2723 | 31ST AVE/18TH ST | 08232013 | 13 | 267 | 603 WP | Completed Comments | 2 COUPLINGS |
| 13-267-604 | 13-2725 | 210 22ND AVE-GSNB | 08232013 | 13 | 267 | 604 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-605 | 13-2734 | 4013 HOOPER ST | 08262013 | 13 | 267 | 605 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-605 | 13-2734 | 4013 HOOPER ST | 08262013 | 13 | 267 | 605 WO | Work Order Comment | 3 13082714450817 |
| 13-267-606 | 13-2738 | HWY 39-LIFT STATION #2 | 08262013 | 13 | 267 | 606 WO | Work Order Comment | 1 CAVE IN @ MANHOLE |
| 13-267-606 | 13-2738 | HWY 39-LIFT STATION #2 | 08262013 | 13 | 267 | 606 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN AROUND MANHOLE |
| 13-267-607 | 13-2746 | 2004 29TH AVE | 08262013 | 13 | 267 | 607 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-607 | 13-2746 | 2004 29TH AVE | 08262013 | 13 | 267 | 607 WP | Completed Comments | 1 ON THE CUST |
| 13-267-608 | 13-2759 | HWY 45 EAST PLANT | 08272013 | 13 | 267 | 608 WO | Work Order Comment | 1 LOCATE MANHOLE |
| 13-267-608 | 13-2759 | HWY 45 EAST PLANT | 08272013 | 13 | 267 | 608 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 13-267-609 | 13-2769 | 2000 39TH AVE | 08272013 | 13 | 267 | 609 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-609 | 13-2769 | 2000 39TH AVE | 08272013 | 13 | 267 | 609 WP | Completed Comments | 1 ON THE CUST |
| 13-267-610 | 13-2779 | HWY 39 | 08282013 | 13 | 267 | 610 WO | Work Order Comment | 1 CAVE IN |
| 13-267-610 | 13-2779 | HWY 39 | 08282013 | 13 | 267 | 610 WP | Completed Comments | 1 FINISHED REPAIRING CAVE IN |
| 13-267-611 | 13-2785 | 1409 15TH ST | 08292013 | 13 | 267 | 611 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 13-267-611 | 13-2785 | 1409 15TH ST | 08292013 | 13 | 267 | 611 WP | Completed Comments | 3 13082815400841 |
| 13-267-611 | 13-2785 | 1409 15TH ST | 08292013 | 13 | 267 | 611 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-612 | 13-2788 | N.E. COMPLEX | 08292013 | 13 | 267 | 612 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-612 | 13-2788 | N.E. COMPLEX | 08292013 | 13 | 267 | 612 WP | Completed Comments | 1 SEWER WAS STOPPED UP/FLUSH LINE |
| 13-267-613 | 13-2802 | 29TH AVE/46TH-47TH CT | 09032013 | 13 | 267 | 613 WO | Work Order Comment | 1 SEWER REPAIR |

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| 13-267-613 | 13-2802 | 29TH AVE/46TH-47TH CT | 09032013 | 13 | 267 | 613 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 13-267-614 | 13-2805 | 5218 LAKEWOOD DR | 09032013 | 13 | 267 | 614 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-614 | 13-2805 | 5218 LAKEWOOD DR | 09032013 | 13 | 267 | 614 WP | Completed Comments | 1 6' 6" PIPE |
| 13-267-614 | 13-2805 | 5218 LAKEWOOD DR | 09032013 | 13 | 267 | 614 WP | Completed Comments | 2 3 6" C PVC MISSION |
| 13-267-614 | 13-2805 | 5218 LAKEWOOD DR | 09032013 | 13 | 267 | 614 WP | Completed Comments | 3 2-SEC 4" SEWER PIPE |
| 13-267-614 | 13-2805 | 5218 LAKEWOOD DR | 09032013 | 13 | 267 | 614 WP | Completed Comments | 4 4' PVC MISSION COUPLING 4- C/PVC MISSION COUPLING |
| 13-267-615 | 13-2808 | 4013 HOOPER ST | 09032013 | 13 | 267 | 615 WO | Work Order Comment | 1 REPAIR SEWER |
| 13-267-616 | 13-2809 | OLD MARION RD/HWY 39 | 09032013 | 13 | 267 | 616 WO | Work Order Comment | 1 BLOCKAGE IN LINE |
| 13-267-616 | 13-2809 | OLD MARION RD/HWY 39 | 09032013 | 13 | 267 | 616 WP | Completed Comments | 1 PROBLEM NOT IN THE CITY LINE |
| 13-267-617 | 13-2810 | 217 45TH CT | 09032013 | 13 | 267 | 617 WO | Work Order Comment | 1 FLUSH LINE |
| 13-267-617 | 13-2810 | 217 45TH CT | 09032013 | 13 | 267 | 617 WP | Completed Comments | 1 CHECKED SEWER ROUTE, LOCATED/ NEED TO FLUSH SEWER |
| 13-267-618 | 13-2813 | PINECREEK APTS | 09032013 | 13 | 267 | 618 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-618 | 13-2813 | PINECREEK APTS | 09032013 | 13 | 267 | 618 WP | Completed Comments | 1 ON US/FLUSHED LINE TO RESOLVE ISSUE |
| 13-267-619 | 13-2818 | 510 49TH CT | 09032013 | 13 | 267 | 619 WO | Work Order Comment | 1 SEWER BACKUP |
| 13-267-619 | 13-2818 | 510 49TH CT | 09032013 | 13 | 267 | 619 WP | Completed Comments | 1 LINE STOPPED UP/FLUSH LINE |
| 13-267-620 | 13-2825 | 1409 15TH ST | 09042013 | 13 | 267 | 620 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-620 | 13-2825 | 1409 15TH ST | 09042013 | 13 | 267 | 620 WP | Completed Comments | 1 REPAIR SEWER CAVE IN |
| 13-267-621 | 13-2831 | 217 45TH ST | 09042013 | 13 | 267 | 621 WO | Work Order Comment | 1 FLUSH LINE |
| 13-267-621 | 13-2831 | 217 45TH ST | 09042013 | 13 | 267 | 621 WP | Completed Comments | 1 FLUSHED SEWER LINE |
| 13-267-622 | 13-2833 | 1117 18TH ST | 09042013 | 13 | 267 | 622 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-622 | 13-2833 | 1117 18TH ST | 09042013 | 13 | 267 | 622 WP | Completed Comments | 1 ON THE CUST |
| 13-267-623 | 13-2834 | 510 49TH CT | 09042013 | 13 | 267 | 623 WO | Work Order Comment | 1 SEWER REPAIR |
| 13-267-623 | 13-2834 | 510 49TH CT | 09042013 | 13 | 267 | 623 WP | Completed Comments | 3 13090411390580 |
| 13-267-623 | 13-2834 | 510 49TH CT | 09042013 | 13 | 267 | 623 WP | Completed Comments | 1 2-8" C/PVC MISSION COUPLING |
| 13-267-623 | 13-2834 | 510 49TH CT | 09042013 | 13 | 267 | 623 WP | Completed Comments | 2 10-8' SEWER PIPE |
| 13-267-624 | 13-2842 | PSD/25TH-26TH ST | 09052013 | 13 | 267 | 624 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-624 | 13-2842 | PSD/25TH-26TH ST | 09052013 | 13 | 267 | 624 WP | Completed Comments | 1 DUPLICATE WO |
| 13-267-625 | 13-2849 | 3715 19TH CT | 09052013 | 13 | 267 | 625 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-625 | 13-2849 | 3715 19TH CT | 09052013 | 13 | 267 | 625 WP | Completed Comments | 1 FLUSHED SEWER LINE |
| 13-267-626 | 13-2855 | PSD/25TH-26TH ST | 09062013 | 13 | 267 | 626 WO | Work Order Comment | 1 CHECK SEWER CAVE IN |
| 13-267-626 | 13-2855 | PSD/25TH-26TH ST | 09062013 | 13 | 267 | 626 WP | Completed Comments | 3 13090613320742 |
| 13-267-626 | 13-2855 | PSD/25TH-26TH ST | 09062013 | 13 | 267 | 626 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-627 | 13-2858 | 40TH AVE/37TH ST | 09062013 | 13 | 267 | 627 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-627 | 13-2858 | 40TH AVE/37TH ST | 09062013 | 13 | 267 | 627 WP | Completed Comments | 1 PROBLEM ON CITY SIDE/RODDED LINE TO RESOLVE ISSUE |
| 13-267-627 | 13-2858 | 40TH AVE/37TH ST | 09092013 | 13 | 267 | 628 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-628 | 13-2877 | 40TH AVE/37TH ST | 09092013 | 13 | 267 | 629 WO | Work Order Comment | 1 LINE STOPPED UP |
| 13-267-629 | 13-2878 | 4019 37TH ST | 09092013 | 13 | 267 | 629 WP | Completed Comments | 1 FLUSHED SEWER LINE TO RESOLVE ISSUE |
| 13-267-629 | 13-2878 | 4019 37TH ST | 09092013 | 13 | 267 | 630 WO | Work Order Comment | 1 SEWER LEAK |
| 13-267-630 | 13-2882 | CHIP PICKERING DR | 09092013 | 13 | 267 | 630 WO | Work Order Comment | 3 13090808460003 |
| 13-267-630 | 13-2882 | CHIP PICKERING DR | 09092013 | 13 | 267 | 630 WP | Completed Comments | 1 REPAIRED SEWER LEAK |
| 13-267-630 | 13-2882 | CHIP PICKERING DR | 09092013 | 13 | 267 | 630 WP | Completed Comments | 1 SEWER BACK UP |
| 13-267-631 | 13-2883 | 1931 22ND AVE HEIGHTS | 09102013 | 13 | 267 | 631 WO | Work Order Comment | 1 SEWER LINE WAS STOPPED UP/USED ROD TO UNSTOP LINE |
| 13-267-631 | 13-2883 | 1931 22ND AVE HEIGHTS | 09102013 | 13 | 267 | 631 WP | Completed Comments | 1 SEWER TAP |
| 13-267-632 | 13-2885 | 4509 9TH AVE | 09102013 | 13 | 267 | 632 WO | Work Order Comment | 3 13091008070101 |
| 13-267-632 | 13-2885 | 4509 9TH AVE | 09102013 | 13 | 267 | 632 WP | Completed Comments | 1 CALLED IN LOCATE FOR SEWER TAP |
| 13-267-632 | 13-2885 | 4509 9TH AVE | 09102013 | 13 | 267 | 632 WP | Completed Comments | 1 LINE STOPPED UP |
| 13-267-633 | 13-2887 | 4019 39TH ST | 09102013 | 13 | 267 | 633 WO | Work Order Comment | 1 LINE STOPPED UP |
| 13-267-634 | 13-2895 | 740 WATERVIEW DRIVE | 09102013 | 13 | 267 | 634 WO | Work Order Comment | 1 MAIN LINE OPEN AND CLEAR/ON THE CUSTOMER |
| 13-267-634 | 13-2895 | 740 WATERVIEW DRIVE | 09102013 | 13 | 267 | 634 WP | Completed Comments | 1 SEWER CAVE IN REPAIR |
| 13-267-635 | 13-2899 | 2517 PSD | 09112013 | 13 | 267 | 635 WO | Work Order Comment | 3 13091107580062 |
| 13-267-635 | 13-2899 | 2517 PSD | 09112013 | 13 | 267 | 635 WP | Completed Comments | 1 CALLED IN LOCATE FOR SEWER CAVE IN REPAIR |
| 13-267-635 | 13-2899 | 2517 PSD | 09112013 | 13 | 267 | 636 WO | Work Order Comment | 1 SEWAGE RUNNING IN DITCH |
| 13-267-636 | 13-2908 | 4303 35TH ST | 09112013 | 13 | 267 | 636 WP | Completed Comments | 1 ON THE US/ |
| 13-267-636 | 13-2908 | 4303 35TH ST | 09122013 | 13 | 267 | 637 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-637 | 13-2921 | 3965 NEWELL RD | 09122013 | 13 | 267 | 637 WO | Work Order Comment | 3 13091209050255 |
| 13-267-637 | 13-2921 | 3965 NEWELL RD | 09122013 | 13 | 267 | 637 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-637 | 13-2921 | 3965 NEWELL RD | 09122013 | 13 | 267 | 637 WP | Completed Comments | 1 SEWAGE RUNNING/SEWER PROBLEMS |
| 13-267-638 | 13-2922 | 4303 35TH ST | 09122013 | 13 | 267 | 638 WO | Work Order Comment | 1 RODDED SEWER LINE |
| 13-267-638 | 13-2922 | 4303 35TH ST | 09122013 | 13 | 267 | 638 WP | Completed Comments | 1 SMOKE SEWER |
| 13-267-639 | 13-2923 | 1805 6TH AVE | 09122013 | 13 | 267 | 639 WO | Work Order Comment | |

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| 13-267-639 | 13-2923 | 1805 6TH AVE | 09122013 | 13 | 267 | 639 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-640 | 13-2924 | 1602 7TH AVE | 09122013 | 13 | 267 | 640 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-640 | 13-2924 | 1602 7TH AVE | 09122013 | 13 | 267 | 640 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-641 | 13-2925 | 2229 7TH AVE | 09122013 | 13 | 267 | 641 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-641 | 13-2925 | 2229 7TH AVE | 09122013 | 13 | 267 | 641 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-642 | 13-2926 | 1806 8TH AVE | 09122013 | 13 | 267 | 642 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-642 | 13-2926 | 1806 8TH AVE | 09122013 | 13 | 267 | 642 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-643 | 13-2927 | 1616 9TH AVE | 09122013 | 13 | 267 | 643 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-643 | 13-2927 | 1616 9TH AVE | 09122013 | 13 | 267 | 643 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-644 | 13-2928 | 1701 9TH AVE | 09122013 | 13 | 267 | 644 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-644 | 13-2928 | 1701 9TH AVE | 09122013 | 13 | 267 | 644 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-645 | 13-2930 | EASTERN GARDENS APT (#107) | 09122013 | 13 | 267 | 645 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-645 | 13-2930 | EASTERN GARDENS APT (#107) | 09122013 | 13 | 267 | 645 WP | Completed Comments | 1 SEWER STOPPED UP IN WOODS/PROBLEM NOT RESOLVED |
| 13-267-646 | 13-2934 | PSD/25TH ST | 09132013 | 13 | 267 | 646 WO | Work Order Comment | 1 SEWER CAVE IN REPAIR |
| 13-267-646 | 13-2934 | PSD/25TH ST | 09132013 | 13 | 267 | 646 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-647 | 13-2935 | 4509 9TH AVE | 09132013 | 13 | 267 | 647 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-647 | 13-2935 | 4509 9TH AVE | 09132013 | 13 | 267 | 647 WP | Completed Comments | 1 LOCATE MANHOLE/SEWER TAP |
| 13-267-648 | 13-2942 | 1116 28TH AVE | 09162013 | 13 | 267 | 648 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-648 | 13-2942 | 1116 28TH AVE | 09162013 | 13 | 267 | 648 WO | Work Order Comment | 3 13091315240811 |
| 13-267-648 | 13-2942 | 1116 28TH AVE | 09162013 | 13 | 267 | 648 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-649 | 13-2945 | 3965 NEWELL RD | 09162013 | 13 | 267 | 649 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-649 | 13-2945 | 3965 NEWELL RD | 09162013 | 13 | 267 | 649 WP | Completed Comments | 1 4" LATERAL - STUBBED OUT MANHOLE |
| 13-267-650 | 13-2946 | 4505 9TH AVE | 09162013 | 13 | 267 | 650 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-650 | 13-2946 | 4505 9TH AVE | 09162013 | 13 | 267 | 650 WP | Completed Comments | 1 1 BAG OF CEMENT |
| 13-267-651 | 13-2947 | NORTH PARK DRIVE | 09162013 | 13 | 267 | 651 WO | Work Order Comment | 1 MANHOLE |
| 13-267-651 | 13-2947 | NORTH PARK DRIVE | 09162013 | 13 | 267 | 651 WP | Completed Comments | 1 RAISED MANHOLE |
| 13-267-652 | 13-2948 | 1805 6TH AVE | 09162013 | 13 | 267 | 652 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-652 | 13-2948 | 1805 6TH AVE | 09162013 | 13 | 267 | 652 WP | Completed Comments | 1 DUPLICATE WO |
| 13-267-653 | 13-2949 | 1602 7TH AVE | 09162013 | 13 | 267 | 653 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-653 | 13-2949 | 1602 7TH AVE | 09162013 | 13 | 267 | 653 WP | Completed Comments | 1 VOID WO |
| 13-267-654 | 13-2950 | 2229 7TH AVE | 09162013 | 13 | 267 | 654 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-654 | 13-2950 | 2229 7TH AVE | 09162013 | 13 | 267 | 654 WP | Completed Comments | 1 DUPLICATE WO |
| 13-267-655 | 13-2951 | 1806 8TH AVE | 09162013 | 13 | 267 | 655 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-655 | 13-2951 | 1806 8TH AVE | 09162013 | 13 | 267 | 655 WP | Completed Comments | 1 DUPLICATE WO |
| 13-267-656 | 13-2962 | 1927 20TH ST | 09172013 | 13 | 267 | 656 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-656 | 13-2962 | 1927 20TH ST | 09172013 | 13 | 267 | 656 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 13-267-657 | 13-2979 | 4323 33RD AVE | 09232013 | 13 | 267 | 657 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-657 | 13-2979 | 4323 33RD AVE | 09232013 | 13 | 267 | 657 WP | Completed Comments | 3 13092015100696 |
| 13-267-658 | 13-2980 | 4316 33RD AVE | 09232013 | 13 | 267 | 658 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-658 | 13-2980 | 4316 33RD AVE | 09232013 | 13 | 267 | 658 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-658 | 13-2980 | 4316 33RD AVE | 09232013 | 13 | 267 | 658 WP | Completed Comments | 3 13092015120701 |
| 13-267-659 | 13-2981 | 4316 33RD AVE | 09232013 | 13 | 267 | 659 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 13-267-660 | 13-2986 | 3604 44TH AVE | 09232013 | 13 | 267 | 660 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-661 | 13-2998 | 3930 12TH ST | 09232013 | 13 | 267 | 661 WO | Work Order Comment | 1 SEWAGE IN CREEK |
| 13-267-661 | 13-2998 | 3930 12TH ST | 09232013 | 13 | 267 | 661 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-662 | 13-2999 | 107 712ST PLACE-WESTERN GARDENS APT | 09232013 | 13 | 267 | 662 WO | Work Order Comment | 1 PROB ON CUST |
| 13-267-662 | 13-2999 | 107 712ST PLACE-WESTERN GARDENS APT | 09232013 | 13 | 267 | 662 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-663 | 13-3000 | 4301 35TH AVE | 09232013 | 13 | 267 | 663 WO | Work Order Comment | 1 PROB ON CUST/ASSIST MAINTENANCE CREW TO HELP W/ PROBLEM |
| 13-267-663 | 13-3000 | 4301 35TH AVE | 09232013 | 13 | 267 | 663 WP | Completed Comments | 1 SEWER PROBLEMS |
| 13-267-664 | 13-3013 | FRANKBERRY CTS | 09242013 | 13 | 267 | 664 WO | Work Order Comment | 1 PROB ON CUST |
| 13-267-664 | 13-3013 | FRANKBERRY CTS | 09242013 | 13 | 267 | 664 WP | Completed Comments | 1 SEWER ODOR |
| 13-267-665 | 13-3015 | 32ND AVE/22ND ST | 09252013 | 13 | 267 | 665 WO | Work Order Comment | 1 FLUSHED THE SEWER LINE |
| 13-267-665 | 13-3015 | 32ND AVE/22ND ST | 09252013 | 13 | 267 | 665 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-665 | 13-3015 | 32ND AVE/22ND ST | 09252013 | 13 | 267 | 665 WP | Completed Comments | 3 13092509510293 |
| 13-267-666 | 13-3016 | 531 52ND AVE | 09252013 | 13 | 267 | 666 WO | Work Order Comment | 1 CALLED IN LOCATE TO KILL SERVICE |
| 13-267-666 | 13-3016 | 531 52ND AVE | 09252013 | 13 | 267 | 666 WP | Completed Comments | 1 SMOKE SEWER |
| 13-267-667 | 13-3017 | 5317 8TH ST | 09252013 | 13 | 267 | 667 WO | Work Order Comment | 1 SMOKED SEWER |
| 13-267-667 | 13-3017 | 5317 8TH ST | 09252013 | 13 | 267 | 667 WP | Completed Comments | 1 SMOKE SEWER |
| | | | | | | | | 1 SMOKED SEWER |

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| 13-267-668 | 13-3018 | 602 59TH AVE | 09252013 | 13 | 267 | 668 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-668 | 13-3018 | 602 59TH AVE | 09252013 | 13 | 267 | 668 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-669 | 13-3019 | 2212 13TH AVE | 09252013 | 13 | 267 | 669 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-669 | 13-3019 | 2212 13TH AVE | 09252013 | 13 | 267 | 669 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-670 | 13-3020 | 1014 28TH AVE | 09252013 | 13 | 267 | 670 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-670 | 13-3020 | 1014 28TH AVE | 09252013 | 13 | 267 | 670 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-671 | 13-3022 | 32ND AVE/2ND-3RD ST | 09252013 | 13 | 267 | 671 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 13-267-671 | 13-3022 | 32ND AVE/2ND-3RD ST | 09252013 | 13 | 267 | 671 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-672 | 13-3028 | 6106 32ND ST | 09252013 | 13 | 267 | 672 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-672 | 13-3028 | 6106 32ND ST | 09252013 | 13 | 267 | 672 WP | Completed Comments | 1 FLUSHED SEWER LINE |
| 13-267-673 | 13-3029 | 15TH AVE/20TH ST | 09252013 | 13 | 267 | 673 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-673 | 13-3029 | 15TH AVE/20TH ST | 09252013 | 13 | 267 | 673 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-674 | 13-3036 | 519 31ST AVE | 09262013 | 13 | 267 | 674 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-674 | 13-3036 | 519 31ST AVE | 09262013 | 13 | 267 | 674 WO | Work Order Comment | 3 13093009170240 |
| 13-267-674 | 13-3036 | 519 31ST AVE | 09262013 | 13 | 267 | 674 WP | Completed Comments | 1 SMOKED SEWER/CALLED IN LOCATE |
| 13-267-675 | 13-3037 | 525 31ST AVE | 09262013 | 13 | 267 | 675 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-675 | 13-3037 | 525 31ST AVE | 09262013 | 13 | 267 | 675 WO | Work Order Comment | 3 13093009170240 |
| 13-267-675 | 13-3037 | 525 31ST AVE | 09262013 | 13 | 267 | 675 WP | Completed Comments | 1 SMOKED SEWER/CALLED IN LOCATE |
| 13-267-676 | 13-3038 | 3104 12TH ST | 09262013 | 13 | 267 | 676 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-676 | 13-3038 | 3104 12TH ST | 09262013 | 13 | 267 | 676 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-677 | 13-3039 | 3120 13TH ST | 09262013 | 13 | 267 | 677 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-677 | 13-3039 | 3120 13TH ST | 09262013 | 13 | 267 | 677 WP | Completed Comments | 1 SMOKED SEWER/CALLED IN LOCATE |
| 13-267-678 | 13-3040 | 1321 31ST AVE | 09262013 | 13 | 267 | 678 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-678 | 13-3040 | 1321 31ST AVE | 09262013 | 13 | 267 | 678 WP | Completed Comments | 1 CALLED IN LOCATE FOR LATERAL/SMOKED SEWER |
| 13-267-679 | 13-3041 | 1721 31ST AVE | 09262013 | 13 | 267 | 679 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-679 | 13-3041 | 1721 31ST AVE | 09262013 | 13 | 267 | 679 WP | Completed Comments | 1 SMOKED SEWER |
| 13-267-680 | 13-3042 | 2218 31ST AVE | 09262013 | 13 | 267 | 680 WO | Work Order Comment | 1 SMOKED SEWER |
| 13-267-680 | 13-3042 | 2218 31ST AVE | 09262013 | 13 | 267 | 680 WP | Completed Comments | 1 SMOKED SEWER/CALLED IN LOCATE |
| 13-267-681 | 13-3043 | 2209 31ST AVE | 09262013 | 13 | 267 | 681 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-681 | 13-3043 | 2209 31ST AVE | 09262013 | 13 | 267 | 681 WP | Completed Comments | 1 SMOKED SEWER/CALLED IN LOCATE |
| 13-267-682 | 13-3044 | 1621 31ST AVE | 09262013 | 13 | 267 | 682 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-682 | 13-3044 | 1621 31ST AVE | 09262013 | 13 | 267 | 682 WP | Completed Comments | 1 SMOKE SEWER/CALLED IN LOCATE |
| 13-267-683 | 13-3045 | 16TH AVE/23RD ST | 09262013 | 13 | 267 | 683 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-683 | 13-3045 | 16TH AVE/23RD ST | 09262013 | 13 | 267 | 683 WP | Completed Comments | 1 SMOKE SEWER/CALLED IN LOCATE |
| 13-267-684 | 13-3047 | 16TH AVE/15TH ST | 09262013 | 13 | 267 | 684 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-684 | 13-3047 | 16TH AVE/15TH ST | 09262013 | 13 | 267 | 684 WP | Completed Comments | 1 CALLED IN LOCATE/SMOKED SEWER |
| 13-267-685 | 13-3048 | 311 24TH ST | 09262013 | 13 | 267 | 685 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-685 | 13-3048 | 311 24TH ST | 09262013 | 13 | 267 | 685 WP | Completed Comments | 1 PROBLEM ON CUSTOMER |
| 13-267-686 | 13-3050 | 4619 5TH ST | 09262013 | 13 | 267 | 686 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-686 | 13-3050 | 4619 5TH ST | 09262013 | 13 | 267 | 686 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 13-267-687 | 13-3069 | 206 22ND AVE | 09302013 | 13 | 267 | 687 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-687 | 13-3069 | 206 22ND AVE | 09302013 | 13 | 267 | 687 WP | Completed Comments | 1 FLUSHED SEWER LINE TO PROVIDE RELIEF/NO PROBLEM FOUND |
| 13-267-688 | 13-3070 | 5912 19TH AVE | 09302013 | 13 | 267 | 688 WO | Work Order Comment | 1 CAVE IN/CUT NEEDS ATTENTION |
| 13-267-688 | 13-3070 | 5912 19TH AVE | 09302013 | 13 | 267 | 688 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 13-267-689 | 13-3077 | 35TH AVE/46TH ST SILVER LEAF | 10012013 | 13 | 267 | 689 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 13-267-689 | 13-3077 | 35TH AVE/46TH ST SILVER LEAF | 10012013 | 13 | 267 | 689 WO | Work Order Comment | 3 13100109450281 |
| 13-267-689 | 13-3077 | 35TH AVE/46TH ST SILVER LEAF | 10012013 | 13 | 267 | 689 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-690 | 13-3078 | 2751 44TH AVE | 10012013 | 13 | 267 | 690 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-690 | 13-3078 | 2751 44TH AVE | 10012013 | 13 | 267 | 690 WP | Completed Comments | 1 PROBLEM ON CUST |
| 13-267-691 | 13-3079 | 4216 CLUB PARK DRIVE | 10012013 | 13 | 267 | 691 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-691 | 13-3079 | 4216 CLUB PARK DRIVE | 10012013 | 13 | 267 | 691 WP | Completed Comments | 1 ON THE CUST |
| 13-267-692 | 13-3080 | 6816 8TH PL | 10012013 | 13 | 267 | 692 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-692 | 13-3080 | 6816 8TH PL | 10012013 | 13 | 267 | 692 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 13-267-693 | 13-3081 | WESTERN GARDENS APTS | 10012013 | 13 | 267 | 693 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-693 | 13-3081 | WESTERN GARDENS APTS | 10012013 | 13 | 267 | 693 WP | Completed Comments | 1 NO PROBLEM FOUND/FLUSHED LINE |
| 13-267-36 | 13-311 | 4029 58TH PLACE | 12272012 | 13 | 267 | 36 WO | Work Order Comment | 1 6" SEWER TAP |
| 13-267-36 | 13-311 | 4029 58TH PLACE | 12272012 | 13 | 267 | 36 WO | Work Order Comment | 2 PLUMBER - THOMAS ROWZEE |
| 13-267-36 | 13-311 | 4029 58TH PLACE | 12272012 | 13 | 267 | 36 WP | Completed Comments | 1 SEWER TAP IN MANHOLE, 6" SEWER PIPE 13' AND 2 BAGS OF CEMENT |
| 13-267-59 | 13-466 | 1926 9TH AVE | 01302013 | 13 | 267 | 59 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |

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| 13-267-59 | 13-466 | 1926 9TH AVE | 01302013 | 13 | 267 | 59 WO | Work Order Comment | 3 LOCATE #1210051630745 |
| 13-267-59 | 13-466 | 1926 9TH AVE | 01302013 | 13 | 267 | 59 WP | Completed Comments | 1 USE 2 BAGS OF CEMENT TO PLUG SEWER LATERAL |
| 13-267-103 | 13-555 | 6323 13TH PLACE | 01312013 | 13 | 267 | 103 WO | Work Order Comment | 1 REPAIR SEWER CAVE-IN |
| 13-267-103 | 13-555 | 6323 13TH PLACE | 01312013 | 13 | 267 | 103 WO | Work Order Comment | 3 LOCATE #12101115210826 |
| 13-267-103 | 13-555 | 6323 13TH PLACE | 01312013 | 13 | 267 | 103 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-117 | 13-616 | 29TH AVE/BETWEEN 15TH-16TH STREET | 02062013 | 13 | 267 | 117 WO | Work Order Comment | 1 UNSTOP SEWER - EMERGENCY CALL |
| 13-267-117 | 13-616 | 29TH AVE/BETWEEN 15TH-16TH STREET | 02062013 | 13 | 267 | 117 WP | Completed Comments | 1 LINE WAS STOP UP WITH GREESE |
| 13-267-138 | 13-685 | 1715 45TH AVE/BOYS & GIRLS CLUB | 02112013 | 13 | 267 | 138 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-138 | 13-685 | 1715 45TH AVE/BOYS & GIRLS CLUB | 02112013 | 13 | 267 | 138 WP | Completed Comments | 1 USE 5 1/2 FEET IF PVC TWO PVC COUPLING |
| 13-267-141 | 13-692 | 1532 49TH AVE | 02122013 | 13 | 267 | 141 WO | Work Order Comment | 1 SEWER BACK UP(ON CUSTOMER) |
| 13-267-141 | 13-692 | 1532 49TH AVE | 02122013 | 13 | 267 | 141 WP | Completed Comments | 1 LINE WAS NOT STOP UP |
| 13-267-142 | 13-693 | 3305 54TH PLACE | 02122013 | 13 | 267 | 142 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-142 | 13-693 | 3305 54TH PLACE | 02122013 | 13 | 267 | 142 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-143 | 13-694 | 2315 23RD AVE | 02122013 | 13 | 267 | 143 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-143 | 13-694 | 2315 23RD AVE | 02122013 | 13 | 267 | 143 WO | Work Order Comment | 3 LOCATE #12110514540939 |
| 13-267-143 | 13-694 | 2315 23RD AVE | 02122013 | 13 | 267 | 143 WP | Completed Comments | 1 2-8" C/PVC MISSION, 6' 8' SEWER PIPE |
| 13-267-143 | 13-694 | 2315 23RD AVE | 02122013 | 13 | 267 | 694 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-144 | 13-695 | 5431 33RD PLACE | 02122013 | 13 | 267 | 694 WP | Completed Comments | 1 ON THE CUST |
| 13-267-144 | 13-695 | 5431 33RD PLACE | 02122013 | 13 | 267 | 695 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-145 | 13-697 | 2696 SELLERS DRIVE | 02122013 | 13 | 267 | 695 WP | Completed Comments | 1 UNSTOPPED LINE/FLUSHED LINE |
| 13-267-145 | 13-697 | 2696 SELLERS DRIVE | 02122013 | 13 | 267 | 697 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 13-267-146 | 13-698 | 4156 A PLACE | 02132013 | 13 | 267 | 697 WP | Completed Comments | 1 UNSTOPPED LINE/FLUSHED LINE |
| 13-267-146 | 13-698 | 4156 A PLACE | 02132013 | 13 | 267 | 698 WO | Work Order Comment | 1 FLUSH MANHOLE |
| 13-267-147 | 13-699 | 45N (EAST SEWAGE PLANT) | 02132013 | 13 | 267 | 698 WP | Completed Comments | 1 ON US/FLUSHED THE LINE |
| 13-267-147 | 13-699 | 45N (EAST SEWAGE PLANT) | 02132013 | 13 | 267 | 699 WO | Work Order Comment | 1 CHECK MANHOLE & CLEAN UP |
| 13-267-148 | 13-700 | HWY 11/80 (CRACKER BARREL) | 02132013 | 13 | 267 | 699 WP | Completed Comments | 1 LOCATE |
| 13-267-148 | 13-700 | HWY 11/80 (CRACKER BARREL) | 02132013 | 13 | 267 | 700 WO | Work Order Comment | 1 CHECK MANHOLE & CLEAN UP |
| 13-267-149 | 13-701 | SOWASHEE ST/145 | 02132013 | 13 | 267 | 700 WP | Completed Comments | 1 SPREAD LIME ALONG DITCH |
| 13-267-150 | 13-711 | 17TH ST/20TH AVE | 02132013 | 13 | 267 | 701 WO | Work Order Comment | 1 CHECK MANHOLE & CLEAN UP |
| 13-267-150 | 13-711 | 17TH ST/20TH AVE | 02132013 | 13 | 267 | 701 WP | Completed Comments | 1 ASSISTING THE STREET DEPT |
| 13-267-151 | 13-712 | 65TH AVE/OLD HWY 80 | 02132013 | 13 | 267 | 711 WO | Work Order Comment | 1 ON THE CUST |
| 13-267-151 | 13-712 | 65TH AVE/OLD HWY 80 | 02132013 | 13 | 267 | 712 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-152 | 13-713 | JAYCEE SOCCER COMPLEX | 02132013 | 13 | 267 | 712 WP | Completed Comments | 1 ON US/FLUSHED THE LINE |
| 13-267-152 | 13-713 | JAYCEE SOCCER COMPLEX | 02132013 | 13 | 267 | 713 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-153 | 13-719 | 359 CLAYTON LAKE DR | 02142013 | 13 | 267 | 713 WP | Completed Comments | 1 ON US |
| 13-267-153 | 13-719 | 359 CLAYTON LAKE DR | 02142013 | 13 | 267 | 719 WO | Work Order Comment | 1 OPEN FIRE PLUG |
| 13-267-154 | 13-720 | 26TH ST/BETWEEN 40TH & 41ST AVE | 02142013 | 13 | 267 | 719 WP | Completed Comments | 1 OPEN FIRE HYDRANT TO RUN AND CLEAR UP DISCOLORATION OF WATER |
| 13-267-155 | 13-723 | 4711 11TH STREET | 02142013 | 13 | 267 | 720 WO | Work Order Comment | 1 CHECK MANHOLE & CLEAN UP |
| 13-267-155 | 13-723 | 4711 11TH STREET | 02142013 | 13 | 267 | 723 WO | Work Order Comment | 1 CHECK MANHOLE |
| 13-267-156 | 13-729 | 1516 MAPLE ST | 02152013 | 13 | 267 | 723 WP | Completed Comments | 1 FLUSHED THE LINE-ON THE CUST |
| 13-267-156 | 13-729 | 1516 MAPLE ST | 02152013 | 13 | 267 | 729 WO | Work Order Comment | 1 SEWER CAVE IN REPAIRS |
| 13-267-157 | 13-733 | 4107 31ST AVE | 02152013 | 13 | 267 | 729 WO | Work Order Comment | 3 13021509450222 |
| 13-267-157 | 13-733 | 4107 31ST AVE | 02152013 | 13 | 267 | 733 WO | Work Order Comment | 1 CHECK MANHOLE |
| 13-267-158 | 13-738 | HWY 45-WAFFLE HOUSE | 02192013 | 13 | 267 | 733 WP | Completed Comments | 1 ON THE CUST |
| 13-267-158 | 13-738 | HWY 45-WAFFLE HOUSE | 02192013 | 13 | 267 | 738 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-159 | 13-740 | 1320 45TH AVE | 02192013 | 13 | 267 | 738 WP | Completed Comments | 1 LINE FULL OF GREASE/FLUSHED LINE TO FIX PROBLEM |
| 13-267-159 | 13-740 | 1320 45TH AVE | 02192013 | 13 | 267 | 740 WO | Work Order Comment | 1 CHECK LATERAL |
| 13-267-159 | 13-740 | 1320 45TH AVE | 02192013 | 13 | 267 | 740 WP | Completed Comments | 1 WE USED 13 FT AND 4 IN OF PVC PIPE AND 3' PVC TO PVC COUPLIN |
| 13-267-160 | 13-744 | 3921 N. HILLS STREET | 02192013 | 13 | 267 | 740 WO | Work Order Comment | 2 G; 2 BAGS OF CEMENT |
| 13-267-160 | 13-744 | 3921 N. HILLS STREET | 02192013 | 13 | 267 | 744 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-161 | 13-748 | KEYFIELD/BLDG 155 | 02192013 | 13 | 267 | 744 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-161 | 13-748 | KEYFIELD/BLDG 155 | 02192013 | 13 | 267 | 748 WO | Work Order Comment | 1 SEWER STOPPED UP |
| 13-267-162 | 13-753 | 643 36TH AVE | 02202013 | 13 | 267 | 748 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-162 | 13-753 | 643 36TH AVE | 02202013 | 13 | 267 | 753 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-163 | 13-756 | 41ST AVE/28TH ST | 02202013 | 13 | 267 | 753 WP | Completed Comments | 1 ON THE CUST |
| 13-267-163 | 13-756 | 41ST AVE/28TH ST | 02202013 | 13 | 267 | 756 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-163 | 13-756 | 41ST AVE/28TH ST | 02202013 | 13 | 267 | 756 WP | Completed Comments | 1 USED 8" X 8" SEWER PIPE,1-4" TAPPING SADDLE, 4"X6"SEWER PIPE |
| 13-267-164 | 13-757 | 4414 12TH STREET | 02202013 | 13 | 267 | 756 WP | Completed Comments | 2 , 2-8" CLAY PVC & 1-4" CLAY TO PVC |
| 13-267-164 | 13-757 | 4414 12TH STREET | 02202013 | 13 | 267 | 757 WO | Work Order Comment | 1 SEWER PROBLEMS |

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|------------|--------|--------------------------------|----------|----|-----|--------|--------------------|---|
| 13-267-164 | 13-757 | 4414 12TH STREET | 02202013 | 13 | 267 | 757 WP | Completed Comments | 1 ON THE CUST |
| 13-267-165 | 13-758 | 2725 41ST AVE | 02202013 | 13 | 267 | 758 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-165 | 13-758 | 2725 41ST AVE | 02202013 | 13 | 267 | 758 WO | Work Order Comment | 3 13022007510070 |
| 13-267-165 | 13-758 | 2725 41ST AVE | 02202013 | 13 | 267 | 758 WP | Completed Comments | 1 REPAIRED 8" SEWER LINE; CALLED IN LOCATE |
| 13-267-166 | 13-766 | 5116 DRUID LN | 02202013 | 13 | 267 | 766 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-166 | 13-766 | 5116 DRUID LN | 02202013 | 13 | 267 | 766 WP | Completed Comments | 1 SMOKED SEWER LINE; NOT ON CITY SEWER |
| 13-267-167 | 13-769 | 2117 19TH AVE | 02202013 | 13 | 267 | 769 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-167 | 13-769 | 2117 19TH AVE | 02202013 | 13 | 267 | 769 WP | Completed Comments | 1 USED 6" 45' 6" COUPLING CLAY TO PVC, 6" COUPLING PVC TO PVC |
| 13-267-168 | 13-772 | 40TH AVE/40TH ST(COLONIAL APT) | 02202013 | 13 | 267 | 772 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-168 | 13-772 | 40TH AVE/40TH ST(COLONIAL APT) | 02202013 | 13 | 267 | 772 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-169 | 13-773 | 3615 29TH AVE | 02202013 | 13 | 267 | 773 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-169 | 13-773 | 3615 29TH AVE | 02202013 | 13 | 267 | 773 WP | Completed Comments | 1 ON THE CUST |
| 13-267-170 | 13-775 | 65TH AVE/M STREET | 02212013 | 13 | 267 | 775 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-170 | 13-775 | 65TH AVE/M STREET | 02212013 | 13 | 267 | 775 WO | Work Order Comment | 3 13022108040059 |
| 13-267-170 | 13-775 | 65TH AVE/M STREET | 02212013 | 13 | 267 | 775 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-171 | 13-777 | 65TH AVE/CITGO TERMINAL | 02212013 | 13 | 267 | 777 WO | Work Order Comment | 1 SINKHOLE |
| 13-267-171 | 13-777 | 65TH AVE/CITGO TERMINAL | 02212013 | 13 | 267 | 777 WO | Work Order Comment | 3 13022513150677 |
| 13-267-171 | 13-777 | 65TH AVE/CITGO TERMINAL | 02212013 | 13 | 267 | 777 WP | Completed Comments | 1 3 YD CONCRETE |
| 13-267-172 | 13-778 | 2716 6TH STREET | 02212013 | 13 | 267 | 778 WO | Work Order Comment | 1 SEWER STOPPED UP |
| 13-267-172 | 13-778 | 2716 6TH STREET | 02212013 | 13 | 267 | 778 WP | Completed Comments | 1 ON THE CUST |
| 13-267-173 | 13-782 | 603 LAKE DR | 02212013 | 13 | 267 | 782 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-173 | 13-782 | 603 LAKE DR | 02212013 | 13 | 267 | 782 WP | Completed Comments | 1 SEWER LATERAL STOPPED UP AND SEWER LINE |
| 13-267-174 | 13-784 | 1523 45TH AVE | 02212013 | 13 | 267 | 784 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-174 | 13-784 | 1523 45TH AVE | 02212013 | 13 | 267 | 784 WP | Completed Comments | 1 ON THE CUST |
| 13-267-175 | 13-787 | HAWKINS CROSSING | 02222013 | 13 | 267 | 787 WO | Work Order Comment | 1 STOPPED UP SEWER |
| 13-267-176 | 13-788 | NEWELL RD | 02222013 | 13 | 267 | 788 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-176 | 13-788 | NEWELL RD | 02222013 | 13 | 267 | 788 WP | Completed Comments | 1 ON US |
| 13-267-177 | 13-789 | 4210 37TH STREET | 02222013 | 13 | 267 | 789 WO | Work Order Comment | 1 FLUSH LINE |
| 13-267-177 | 13-789 | 4210 37TH STREET | 02222013 | 13 | 267 | 789 WP | Completed Comments | 1 ON THE CUST |
| 13-267-178 | 13-790 | 1212 47TH AVE | 02222013 | 13 | 267 | 790 WO | Work Order Comment | 1 SEWER STOPPED UP |
| 13-267-178 | 13-790 | 1212 47TH AVE | 02222013 | 13 | 267 | 790 WP | Completed Comments | 1 ON THE CUST |
| 13-267-179 | 13-791 | 6253 14TH AVE | 02222013 | 13 | 267 | 791 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-179 | 13-791 | 6253 14TH AVE | 02222013 | 13 | 267 | 791 WP | Completed Comments | 1 ON THE CUST |
| 13-267-180 | 13-796 | 3615 29TH ST | 02222013 | 13 | 267 | 180 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-180 | 13-796 | 3615 29TH ST | 02222013 | 13 | 267 | 180 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-180 | 13-796 | 3615 29TH ST | 02222013 | 13 | 267 | 796 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-180 | 13-796 | 3615 29TH ST | 02222013 | 13 | 267 | 796 WP | Completed Comments | 1 NO WATER LEAK |
| 13-267-181 | 13-807 | 1121 HWY 39 | 02252013 | 13 | 267 | 181 WO | Work Order Comment | 1 SEWER PROBLEM |
| 13-267-181 | 13-807 | 1121 HWY 39 | 02252013 | 13 | 267 | 181 WP | Completed Comments | 1 ON THE CITY |
| 13-267-181 | 13-807 | 1121 HWY 39 | 02252013 | 13 | 267 | 807 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-182 | 13-809 | 3129 HWY 39 N | 02252013 | 13 | 267 | 809 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-182 | 13-809 | 3129 HWY 39 N | 02252013 | 13 | 267 | 809 WP | Completed Comments | 1 ON THE CUST |
| 13-267-183 | 13-810 | 706 MIMOSA DRIVE | 02252013 | 13 | 267 | 810 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-183 | 13-810 | 706 MIMOSA DRIVE | 02252013 | 13 | 267 | 810 WP | Completed Comments | 1 PATCHED AROUND BOTOOM OF MANHOLE W/ CEMENT BAGS (3) |
| 13-267-184 | 13-823 | 601 24TH AVE | 02272013 | 13 | 267 | 823 WO | Work Order Comment | 1 VERIFY LOCATION |
| 13-267-184 | 13-823 | 601 24TH AVE | 02272013 | 13 | 267 | 823 WP | Completed Comments | 1 NOT ON CITY WATER;ON SEWER |
| 13-267-185 | 13-824 | 566 C PIPPIN RD | 02272013 | 13 | 267 | 824 WO | Work Order Comment | 1 VERIFY LOCATION |
| 13-267-185 | 13-824 | 566 C PIPPIN RD | 02272013 | 13 | 267 | 824 WP | Completed Comments | 1 SEPTIC TANK NOT ON CITY SEWER |
| 13-267-186 | 13-832 | ROOTS IN SEWER LINE | 02272013 | 13 | 267 | 832 WO | Work Order Comment | 1 ROOTS IN SEWER LINE |
| 13-267-186 | 13-832 | ROOTS IN SEWER LINE | 02272013 | 13 | 267 | 832 WP | Completed Comments | 1 ON THE CUST |
| 13-267-187 | 13-834 | 2713 EDGEWOOD DR | 02272013 | 13 | 267 | 834 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-187 | 13-834 | 2713 EDGEWOOD DR | 02272013 | 13 | 267 | 834 WP | Completed Comments | 1 ON THE CUST |
| 13-267-188 | 13-836 | WWTP-HWY 45 | 02272013 | 13 | 267 | 836 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-188 | 13-836 | WWTP-HWY 45 | 02272013 | 13 | 267 | 836 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-189 | 13-837 | 1819 42ND AVE | 02272013 | 13 | 267 | 837 WO | Work Order Comment | 1 SEWER BACK UP IN HOUSE |
| 13-267-189 | 13-837 | 1819 42ND AVE | 02272013 | 13 | 267 | 837 WP | Completed Comments | 1 ON THE CUST |
| 13-267-190 | 13-839 | 1515 50TH AVE | 02272013 | 13 | 267 | 839 WO | Work Order Comment | 1 ASSIST STREET DEPT |
| 13-267-190 | 13-839 | 1515 50TH AVE | 02272013 | 13 | 267 | 839 WP | Completed Comments | 1 ON THE CUST |
| 13-267-191 | 13-841 | LINDLEY RD | 02272013 | 13 | 267 | 841 WO | Work Order Comment | 1 SEWER STOPPED UP |

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| 13-267-191 | 13-841 | LINDLEY RD | 02272013 | 13 | 267 | 841 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 13-267-192 | 13-842 | 3422 RAY ST | 02272013 | 13 | 267 | 842 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-192 | 13-842 | 3422 RAY ST | 02272013 | 13 | 267 | 842 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 13-267-193 | 13-843 | 2812 45TH PL | 02272013 | 13 | 267 | 843 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-194 | 13-846 | PINEVIEW CIRCLE | 02272013 | 13 | 267 | 846 WO | Work Order Comment | 1 RAISE MANHOLE |
| 13-267-194 | 13-846 | PINEVIEW CIRCLE | 02272013 | 13 | 267 | 846 WP | Completed Comments | 1 WE USED 2 MANHOLE RAISE AND 3 BAGS OF CONCRETE |
| 13-267-195 | 13-848 | 2812 45TH PLACE | 02272013 | 13 | 267 | 848 WO | Work Order Comment | 1 VERIFY ON SEWER |
| 13-267-195 | 13-848 | 2812 45TH PLACE | 02272013 | 13 | 267 | 848 WP | Completed Comments | 1 CUST ON CITY SEWER LINE- THE SEWER LATERAL IS IN MANHOLE |
| 13-267-196 | 13-849 | 3611 HIGHLAND AVE | 02272013 | 13 | 267 | 849 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-196 | 13-849 | 3611 HIGHLAND AVE | 02272013 | 13 | 267 | 849 WO | Work Order Comment | 3 13022811280437 |
| 13-267-197 | 13-850 | 212 49TH AVE | 02272013 | 13 | 267 | 849 WP | Completed Comments | 1 ON THE CUST |
| 13-267-197 | 13-850 | 212 49TH AVE | 02272013 | 13 | 267 | 850 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-198 | 13-855 | 1355 61ST COURT | 02272013 | 13 | 267 | 850 WP | Completed Comments | 1 ON THE CUST |
| 13-267-198 | 13-855 | 1355 61ST COURT | 02272013 | 13 | 267 | 855 WO | Work Order Comment | 1 CAVE IN |
| 13-267-198 | 13-855 | 1355 61ST COURT | 02272013 | 13 | 267 | 855 WO | Work Order Comment | 3 13022715450797 |
| 13-267-199 | 13-863 | 18TH AVE/21ST CT | 02272013 | 13 | 267 | 855 WP | Completed Comments | 1 CALLED IN LOCATE/REPAIRED CAVE IN |
| 13-267-199 | 13-863 | 18TH AVE/21ST CT | 02282013 | 13 | 267 | 863 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 13-267-199 | 13-863 | 18TH AVE/21ST CT | 02282013 | 13 | 267 | 863 WO | Work Order Comment | 3 13022809420244 |
| 13-267-200 | 13-879 | WMOX/HWY 11 & 80 | 02282013 | 13 | 267 | 863 WP | Completed Comments | 1 USED 4" X 6" SEWER PIPE, 2 BAGS OF CEMENT |
| 13-267-201 | 13-884 | 4112 PINEVIEW CIRCLE | 03012013 | 13 | 267 | 879 WO | Work Order Comment | 1 LOCATE SEWER MANHOLE |
| 13-267-201 | 13-884 | 4112 PINEVIEW CIRCLE | 03012013 | 13 | 267 | 884 WO | Work Order Comment | 1 SEWER ODOR |
| 13-267-202 | 13-894 | 1806 39TH PL | 03012013 | 13 | 267 | 884 WP | Completed Comments | 1 ON THE CUST |
| 13-267-202 | 13-894 | 1806 39TH PL | 03042013 | 13 | 267 | 894 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-203 | 13-895 | 4061 34TH AVE | 03042013 | 13 | 267 | 894 WP | Completed Comments | 1 ON THE CUST |
| 13-267-203 | 13-895 | 4061 34TH AVE | 03042013 | 13 | 267 | 895 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-204 | 13-896 | 405 23RD AVE | 03042013 | 13 | 267 | 895 WP | Completed Comments | 1 ON THE CUST |
| 13-267-204 | 13-896 | 405 23RD AVE | 03042013 | 13 | 267 | 896 WO | Work Order Comment | 1 REPAIR SEWER LATERAL |
| 13-267-204 | 13-896 | 405 23RD AVE | 03042013 | 13 | 267 | 896 WO | Work Order Comment | 3 13030410200448 |
| 13-267-205 | 13-910 | 4819 SHUMATE RD | 03042013 | 13 | 267 | 896 WP | Completed Comments | 1 CALLED IN LOCATE |
| 13-267-205 | 13-910 | 4819 SHUMATE RD | 03042013 | 13 | 267 | 910 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-206 | 13-918 | 6TH AVE/A STREET | 03042013 | 13 | 267 | 910 WP | Completed Comments | 1 ON THE CUST |
| 13-267-206 | 13-918 | 6TH AVE/A STREET | 03052013 | 13 | 267 | 918 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-207 | 13-921 | 2676 ST. CHARLES ST | 03052013 | 13 | 267 | 918 WP | Completed Comments | 1 ON THE CUST |
| 13-267-207 | 13-921 | 2676 ST. CHARLES ST | 03052013 | 13 | 267 | 921 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-208 | 13-925 | 3408 39TH STREET | 03052013 | 13 | 267 | 921 WP | Completed Comments | 1 ON THE CUST |
| 13-267-208 | 13-925 | 3408 39TH STREET | 03062013 | 13 | 267 | 925 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-209 | 13-938 | 49TH AVE | 03062013 | 13 | 267 | 925 WP | Completed Comments | 1 ON THE CUST |
| 13-267-209 | 13-938 | 49TH AVE | 03072013 | 13 | 267 | 938 WO | Work Order Comment | 1 SEWER CAVE IN |
| 13-267-209 | 13-938 | 49TH AVE | 03072013 | 13 | 267 | 938 WP | Completed Comments | 1 6" 20' PIPE |
| 13-267-210 | 13-939 | 323 4TH AVE | 03072013 | 13 | 267 | 938 WP | Completed Comments | 2 4 YD CONCRETE |
| 13-267-210 | 13-939 | 323 4TH AVE | 03072013 | 13 | 267 | 939 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-211 | 13-946 | 2029 27TH AVE | 03072013 | 13 | 267 | 939 WP | Completed Comments | 1 ON THE CUST |
| 13-267-211 | 13-946 | 2029 27TH AVE | 03082013 | 13 | 267 | 946 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-212 | 13-952 | 603 LAKE DRIVE | 03082013 | 13 | 267 | 946 WP | Completed Comments | 1 ON THE CUST |
| 13-267-212 | 13-952 | 603 LAKE DRIVE | 03112013 | 13 | 267 | 952 WO | Work Order Comment | 1 SEWER BACK UP |
| 13-267-213 | 13-953 | 5223 LAKEWOOD DRIVE | 03112013 | 13 | 267 | 952 WP | Completed Comments | 1 ON THE CUST |
| 13-267-213 | 13-953 | 5223 LAKEWOOD DRIVE | 03112013 | 13 | 267 | 953 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-214 | 13-960 | 3916 HWY 39 N | 03112013 | 13 | 267 | 953 WP | Completed Comments | 1 LINE STOPPED UP WITH TISSUE/FLUSHED LINE |
| 13-267-214 | 13-960 | 3916 HWY 39 N | 03112013 | 13 | 267 | 960 WO | Work Order Comment | 1 TIOLETS WILL NOT FLUSH/SINKS BACK UP |
| 13-267-215 | 13-961 | 31ST ST/PARKWAY BLVD | 03112013 | 13 | 267 | 960 WP | Completed Comments | 1 ON THE CUST |
| 13-267-215 | 13-961 | 31ST ST/PARKWAY BLVD | 03112013 | 13 | 267 | 215 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 13-267-215 | 13-961 | 31ST ST/PARKWAY BLVD | 03112013 | 13 | 267 | 215 WO | Work Order Comment | 3 LOCATE #12112910460353 |
| 13-267-215 | 13-961 | 31ST ST/PARKWAY BLVD | 03112013 | 13 | 267 | 961 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-216 | 13-968 | FRANKBERRY APTS | 03112013 | 13 | 267 | 961 WP | Completed Comments | 1 OVERFLOWING DUE TO EXCESSIVE RAIN |
| 13-267-216 | 13-968 | FRANKBERRY APTS | 03122013 | 13 | 267 | 968 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-217 | 13-969 | 2674 ST CHARLES STREET | 03122013 | 13 | 267 | 968 WP | Completed Comments | 1 FLUSHED LINE |
| 13-267-217 | 13-969 | 2674 ST CHARLES STREET | 03122013 | 13 | 267 | 969 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 13-267-218 | 13-981 | 4907 15TH PLACE | 03122013 | 13 | 267 | 969 WP | Completed Comments | 1 ON THE CUST |
| | | | 03142013 | 13 | 267 | 981 WO | Work Order Comment | 1 SEWER ODOR |

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| 13-267-218 | 13-981 | 4907 15TH PLACE | 03142013 | 13 | 267 | 981 WP | Completed Comments | 1 SEWER LINE WAS NOT STOPPED UP. SEWER LINE OK/ NO ODOR |
| 13-267-219 | 13-983 | 4156 A PLACE | 03142013 | 13 | 267 | 983 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 13-267-219 | 13-983 | 4156 A PLACE | 03142013 | 13 | 267 | 983 WP | Completed Comments | 1 ON US/FLUSHED THE LINE |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 220 WO | Work Order Comment | 1 SEWER BACK UP(ON CUSTOMER) |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 220 WP | Completed Comments | 1 ON THE CUSTOMER |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 984 WO | Work Order Comment | 1 SEWER TAP |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 984 WO | Work Order Comment | 3 13031415400802 |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 984 WP | Completed Comments | 1 6" SEWER TAP IN MANHOLE; 2 BAGS OF CEMENT AND 6" X 26' SEWER |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 984 WP | Completed Comments | 2 PIPE. |
| 13-267-220 | 13-984 | 510 22ND AVE | 03142013 | 13 | 267 | 221 WO | Work Order Comment | 1 SMOKE SEWER |
| 13-267-221 | 13-986 | 2715 6TH STREET | 03142013 | 13 | 267 | 986 WO | Work Order Comment | 1 SEWER PROBLEMS/RAW SEWAGE RUNNING |
| 13-267-221 | 13-986 | 2715 6TH STREET | 03142013 | 13 | 267 | 986 WP | Completed Comments | 1 ON US/FLUSHED THE LINE |
| 13-267-221 | 13-986 | 2715 6TH STREET | 03142013 | 13 | 267 | 222 WO | Work Order Comment | 1 SEWER PROBLEM - CONTRACTOR HIT SEWER LATERAL |
| 13-267-222 | 13-991 | 1355 61ST CT | 03182013 | 13 | 267 | 991 WO | Work Order Comment | 1 CAVE IN BY MANHOLE |
| 13-267-222 | 13-991 | 1355 61ST CT | 03182013 | 13 | 267 | 223 WO | Work Order Comment | 1 SEWER SMELL |
| 13-267-223 | 13-992 | BOUNDS RD | 03182013 | 13 | 267 | 223 WP | Completed Comments | 1 FLUSH MANHOLE |
| 13-267-223 | 13-992 | BOUNDS RD | 03182013 | 13 | 267 | 992 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 13-267-223 | 13-992 | BOUNDS RD | 03182013 | 13 | 267 | 992 WP | Completed Comments | 1 200 BRICK |
| 13-267-223 | 13-992 | BOUNDS RD | 03182013 | 13 | 267 | 992 WP | Completed Comments | 2 6 BAGS OF CEMENT |
| 13-267-223 | 13-992 | BOUNDS RD | 03182013 | 13 | 267 | 318 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-318 | 14-1000 | 1408 ROEBUCK DR-WAFFLE HOUSE | 02052014 | 14 | 267 | 318 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-318 | 14-1000 | 1408 ROEBUCK DR-WAFFLE HOUSE | 02052014 | 14 | 267 | 1000 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-318 | 14-1000 | 1408 ROEBUCK DR-WAFFLE HOUSE | 02052014 | 14 | 267 | 1000 WP | Completed Comments | 1 ON THE CUST/SPOKE W/ MANAGER TO ADVISE |
| 14-267-318 | 14-1000 | 1408 ROEBUCK DR-WAFFLE HOUSE | 02052014 | 14 | 267 | 319 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-319 | 14-1001 | 6207 CHERRY ST | 02052014 | 14 | 267 | 319 WO | Work Order Comment | 3 13110414400859 |
| 14-267-319 | 14-1001 | 6207 CHERRY ST | 02052014 | 14 | 267 | 319 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-319 | 14-1001 | 6207 CHERRY ST | 02052014 | 14 | 267 | 1001 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-319 | 14-1001 | 6207 CHERRY ST | 02052014 | 14 | 267 | 1001 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 14-267-319 | 14-1001 | 6207 CHERRY ST | 02052014 | 14 | 267 | 1006 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-320 | 14-1006 | 3217 52ND ST | 02052014 | 14 | 267 | 1006 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 14-267-320 | 14-1006 | 3217 52ND ST | 02052014 | 14 | 267 | 321 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 14-267-321 | 14-1010 | 5725 HWY 39N | 02062014 | 14 | 267 | 1010 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-321 | 14-1010 | 5725 HWY 39N | 02062014 | 14 | 267 | 1010 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-321 | 14-1010 | 5725 HWY 39N | 02062014 | 14 | 267 | 1011 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-322 | 14-1011 | 6625 NHS | 02062014 | 14 | 267 | 1011 WP | Completed Comments | 1 ON THE CUST |
| 14-267-322 | 14-1011 | 6625 NHS | 02062014 | 14 | 267 | 1021 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-323 | 14-1021 | 404 TIMBER RIDGE RD | 02072014 | 14 | 267 | 1024 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-324 | 14-1024 | 619 39TH AVE | 02072014 | 14 | 267 | 1024 WO | Work Order Comment | 3 14020710500306 |
| 14-267-324 | 14-1024 | 619 39TH AVE | 02072014 | 14 | 267 | 1024 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-324 | 14-1024 | 619 39TH AVE | 02072014 | 14 | 267 | 1025 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-325 | 14-1025 | 521 52ND AVE | 02072014 | 14 | 267 | 1025 WO | Work Order Comment | 3 14020710490301 |
| 14-267-325 | 14-1025 | 521 52ND AVE | 02072014 | 14 | 267 | 1025 WO | Work Order Comment | 4 14022708470208 |
| 14-267-325 | 14-1025 | 521 52ND AVE | 02072014 | 14 | 267 | 1025 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-325 | 14-1025 | 521 52ND AVE | 02072014 | 14 | 267 | 1026 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-326 | 14-1026 | 607 53RD AVE | 02072014 | 14 | 267 | 1026 WO | Work Order Comment | 3 14020710470292 |
| 14-267-326 | 14-1026 | 607 53RD AVE | 02072014 | 14 | 267 | 1026 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-326 | 14-1026 | 607 53RD AVE | 02072014 | 14 | 267 | 1027 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-327 | 14-1027 | 613 53RD AVE | 02072014 | 14 | 267 | 1027 WO | Work Order Comment | 3 14020710480297 |
| 14-267-327 | 14-1027 | 613 53RD AVE | 02072014 | 14 | 267 | 1027 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-327 | 14-1027 | 613 53RD AVE | 02072014 | 14 | 267 | 1028 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-328 | 14-1028 | 1714 20TH AVE | 02072014 | 14 | 267 | 1028 WO | Work Order Comment | 3 14020710440283 |
| 14-267-328 | 14-1028 | 1714 20TH AVE | 02072014 | 14 | 267 | 1028 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-328 | 14-1028 | 1714 20TH AVE | 02072014 | 14 | 267 | 1029 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-329 | 14-1029 | 1808 17TH ST | 02072014 | 14 | 267 | 1029 WO | Work Order Comment | 3 14020710460288 |
| 14-267-329 | 14-1029 | 1808 17TH ST | 02072014 | 14 | 267 | 1029 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-329 | 14-1029 | 1808 17TH ST | 02072014 | 14 | 267 | 1030 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-330 | 14-1030 | 1914 26TH AVE | 02072014 | 14 | 267 | 1030 WP | Completed Comments | 1 ON THE CITY/FLUSHED LINE TO UNSTOP MANHOLE |
| 14-267-330 | 14-1030 | 1914 26TH AVE | 02072014 | 14 | 267 | 331 WO | Work Order Comment | 1 SEWER MAIN REPAIR |
| 14-267-331 | 14-1040 | CHIP PICKERING | 02102014 | 14 | 267 | 331 WO | Work Order Comment | 3 13110515130905 EMERGENCY |
| 14-267-331 | 14-1040 | CHIP PICKERING | 02102014 | 14 | 267 | | | |

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|------------|---------|-----------------------|----------|----|-----|---------|--------------------|-----------------------------------|
| 14-267-331 | 14-1040 | CHIP PICKERING | 02102014 | 14 | 267 | 331 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-331 | 14-1040 | CHIP PICKERING | 02102014 | 14 | 267 | 1040 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 14-267-331 | 14-1040 | CHIP PICKERING | 02102014 | 14 | 267 | 1040 WO | Work Order Comment | 3 14021008550210 |
| 14-267-331 | 14-1040 | CHIP PICKERING | 02102014 | 14 | 267 | 1040 WO | Work Order Comment | 4 14021011260486 |
| 14-267-332 | 14-1044 | EAST PLANT HWY 45 N | 02102014 | 14 | 267 | 1040 WP | Completed Comments | 1 1-12"X12" FULL CIRCLE CLAMP |
| 14-267-333 | 14-1045 | 3617 35TH AVE | 02102014 | 14 | 267 | 1044 WO | Work Order Comment | 1 SEWER LINE |
| 14-267-333 | 14-1045 | 3617 35TH AVE | 02102014 | 14 | 267 | 1045 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-334 | 14-1046 | REGENCY APTS | 02102014 | 14 | 267 | 1045 WP | Completed Comments | 1 ON THE CUST |
| 14-267-334 | 14-1046 | REGENCY APTS | 02102014 | 14 | 267 | 334 WO | Work Order Comment | 1 REPAIR SEWER MAIN |
| 14-267-334 | 14-1046 | REGENCY APTS | 02102014 | 14 | 267 | 334 WP | Completed Comments | 1 1 - 12" FULL CIRCLE CLAMP |
| 14-267-334 | 14-1046 | REGENCY APTS | 02102014 | 14 | 267 | 1046 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-335 | 14-1047 | 1219 WINDMILL DR | 02102014 | 14 | 267 | 1046 WP | Completed Comments | 1 ON THE CUST |
| 14-267-335 | 14-1047 | 1219 WINDMILL DR | 02102014 | 14 | 267 | 1047 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-336 | 14-1051 | 1402 38TH AVE EAST | 02102014 | 14 | 267 | 1047 WP | Completed Comments | 1 ON THE CUST |
| 14-267-336 | 14-1051 | 1402 38TH AVE EAST | 02112014 | 14 | 267 | 336 WO | Work Order Comment | 1 CHECK HYDRANT |
| 14-267-336 | 14-1051 | 1402 38TH AVE EAST | 02112014 | 14 | 267 | 336 WO | Work Order Comment | 3 13110713580630 |
| 14-267-336 | 14-1051 | 1402 38TH AVE EAST | 02112014 | 14 | 267 | 336 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-336 | 14-1051 | 1402 38TH AVE EAST | 02112014 | 14 | 267 | 1051 WO | Work Order Comment | 1 SEWER & WATER TAPS |
| 14-267-336 | 14-1051 | 1402 38TH AVE EAST | 02112014 | 14 | 267 | 1051 WO | Work Order Comment | 3 14022608430181 |
| 14-267-337 | 14-1054 | 1821 30TH AVE | 02112014 | 14 | 267 | 1051 WP | Completed Comments | 1 UPDATED LOCATE |
| 14-267-337 | 14-1054 | 1821 30TH AVE | 02112014 | 14 | 267 | 337 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 14-267-337 | 14-1054 | 1821 30TH AVE | 02112014 | 14 | 267 | 337 WP | Completed Comments | 1 REPAIRED SEWER LINE |
| 14-267-337 | 14-1054 | 1821 30TH AVE | 02112014 | 14 | 267 | 1054 WO | Work Order Comment | 1 REPAIR SINKHOLE |
| 14-267-338 | 14-1057 | 22ND AVE- GOOD YEAR | 02112014 | 14 | 267 | 1054 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 14-267-338 | 14-1057 | 22ND AVE- GOOD YEAR | 02112014 | 14 | 267 | 1057 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-338 | 14-1057 | 22ND AVE- GOOD YEAR | 02112014 | 14 | 267 | 1057 WO | Work Order Comment | 3 14021114140720 |
| 14-267-339 | 14-1058 | 619 39TH AVE | 02122014 | 14 | 267 | 1057 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-339 | 14-1058 | 619 39TH AVE | 02122014 | 14 | 267 | 339 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-339 | 14-1058 | 619 39TH AVE | 02122014 | 14 | 267 | 339 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-339 | 14-1058 | 619 39TH AVE | 02122014 | 14 | 267 | 1058 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-340 | 14-1064 | 4823 5TH AVE | 02122014 | 14 | 267 | 1058 WP | Completed Comments | 1 KILLED SEWER SERVICE |
| 14-267-340 | 14-1064 | 4823 5TH AVE | 02122014 | 14 | 267 | 1064 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-341 | 14-1068 | 607 53RD AVE | 02132014 | 14 | 267 | 1064 WP | Completed Comments | 1 CLEANOUT PLUG STOPPED UP |
| 14-267-342 | 14-1069 | 613 53RD AVE | 02132014 | 14 | 267 | 1068 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-342 | 14-1069 | 613 53RD AVE | 02132014 | 14 | 267 | 342 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-342 | 14-1069 | 613 53RD AVE | 02132014 | 14 | 267 | 342 WP | Completed Comments | 1 FLUSHED LINE/LINE WAS REPAIRED |
| 14-267-343 | 14-1070 | 1714 20TH AVE | 02132014 | 14 | 267 | 1069 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-343 | 14-1070 | 1714 20TH AVE | 02132014 | 14 | 267 | 343 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-343 | 14-1070 | 1714 20TH AVE | 02132014 | 14 | 267 | 343 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-344 | 14-1071 | 1808 17TH ST | 02132014 | 14 | 267 | 1070 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-345 | 14-1075 | 4231 GRANDVIEW AVE | 02132014 | 14 | 267 | 1071 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-345 | 14-1075 | 4231 GRANDVIEW AVE | 02132014 | 14 | 267 | 1075 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-346 | 14-1077 | 1302 21ST AVE | 02132014 | 14 | 267 | 1075 WP | Completed Comments | 1 COULD NOT FIND PROBLEM W/ LINE |
| 14-267-346 | 14-1077 | 1302 21ST AVE | 02132014 | 14 | 267 | 1077 WO | Work Order Comment | 1 SEWER LEAK/SEWER PROBLEM |
| 14-267-347 | 14-1083 | 6110 HWY 80 W | 02132014 | 14 | 267 | 1077 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 14-267-347 | 14-1083 | 6110 HWY 80 W | 02132014 | 14 | 267 | 1083 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-348 | 14-1084 | 6106 32ND ST | 02132014 | 14 | 267 | 1083 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP BLOCKAGE |
| 14-267-348 | 14-1084 | 6106 32ND ST | 02132014 | 14 | 267 | 1084 WO | Work Order Comment | 1 SEWER BACKUP |
| 14-267-349 | 14-1088 | 4552 HIGHLAND PARK DR | 02132014 | 14 | 267 | 1084 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP BLOCKAGE |
| 14-267-349 | 14-1088 | 4552 HIGHLAND PARK DR | 02142014 | 14 | 267 | 1088 WO | Work Order Comment | 1 FLUSH SEWER LINE |
| 14-267-350 | 14-1103 | 2676 ST CHARLES ST | 02142014 | 14 | 267 | 1088 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP LINE |
| 14-267-350 | 14-1103 | 2676 ST CHARLES ST | 02182014 | 14 | 267 | 1103 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-350 | 14-1103 | 2676 ST CHARLES ST | 02182014 | 14 | 267 | 1103 WO | Work Order Comment | 3 14021810470466 |
| 14-267-351 | 14-1104 | HWY 45N - EAST PLANT | 02182014 | 14 | 267 | 1103 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-351 | 14-1104 | HWY 45N - EAST PLANT | 02182014 | 14 | 267 | 1104 WO | Work Order Comment | 1 SEWER LINE |
| 14-267-351 | 14-1104 | HWY 45N - EAST PLANT | 02182014 | 14 | 267 | 1104 WO | Work Order Comment | 3 14021808180149 |
| 14-267-352 | 14-1105 | 1415 COLLEGE DR | 02182014 | 14 | 267 | 1104 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-352 | 14-1105 | 1415 COLLEGE DR | 02182014 | 14 | 267 | 1105 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-352 | 14-1105 | 1415 COLLEGE DR | 02182014 | 14 | 267 | 1105 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP BLOCKAGE |

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| 14-267-353 | 14-1106 | 3462 ST. BLVD | 02182014 | 14 | 267 | 1106 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-353 | 14-1106 | 3462 ST. BLVD | 02182014 | 14 | 267 | 1106 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP MANHOLE |
| 14-267-354 | 14-1108 | 4901 5TH PLACE | 02182014 | 14 | 267 | 1108 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-354 | 14-1108 | 4901 5TH PLACE | 02182014 | 14 | 267 | 1108 WP | Completed Comments | 1 SHOT CLEAN OUT PLUG TO PROVIDE RELIEF FOR CUSTOMER |
| 14-267-355 | 14-1117 | 5316 N HILLS ST | 02192014 | 14 | 267 | 1117 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-356 | 14-1124 | 1545 22ND AVE HEIGHTS | 02192014 | 14 | 267 | 1124 WO | Work Order Comment | 1 ASSIST ATMOS ENERGY |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 357 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 357 WO | Work Order Comment | 3 13110809400249 |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 357 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 1126 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 1126 WO | Work Order Comment | 3 14021913310652 |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 1126 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-357 | 14-1126 | 1917 6TH ST | 02192014 | 14 | 267 | 1144 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-358 | 14-1144 | DOMINOE'S PIZZA/NHS | 02202014 | 14 | 267 | 1144 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP MANHOLE |
| 14-267-358 | 14-1144 | DOMINOE'S PIZZA/NHS | 02202014 | 14 | 267 | 1145 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-359 | 14-1145 | 2800 NHS | 02202014 | 14 | 267 | 1145 WP | Completed Comments | 1 ON THE CUST/NEED PLUMBER |
| 14-267-359 | 14-1145 | 2800 NHS | 02202014 | 14 | 267 | 1152 WO | Work Order Comment | 1 SMOKE SEWER |
| 14-267-360 | 14-1152 | 5004 W GATE HILLS DR | 02212014 | 14 | 267 | 1152 WP | Completed Comments | 1 NOT TIED ON TO CITY SEWER |
| 14-267-360 | 14-1152 | 5004 W GATE HILLS DR | 02212014 | 14 | 267 | 1153 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-361 | 14-1153 | 1350 24TH ST | 02212014 | 14 | 267 | 1153 WO | Work Order Comment | 3 140224084400234 |
| 14-267-361 | 14-1153 | 1350 24TH ST | 02212014 | 14 | 267 | 1153 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-361 | 14-1153 | 1350 24TH ST | 02212014 | 14 | 267 | 1153 WP | Completed Comments | 1 SEWER REPAIR |
| 14-267-362 | 14-1158 | CHIP PICKERING | 02212014 | 14 | 267 | 1158 WO | Work Order Comment | 3 14022116080845 |
| 14-267-362 | 14-1158 | CHIP PICKERING | 02212014 | 14 | 267 | 1158 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-362 | 14-1158 | CHIP PICKERING | 02212014 | 14 | 267 | 1158 WP | Completed Comments | 1 SEWER LINE |
| 14-267-362 | 14-1158 | CHIP PICKERING | 02212014 | 14 | 267 | 1158 WP | Completed Comments | 1 REPAIR MANHOLE |
| 14-267-363 | 14-1164 | HWY 45 N- EAST PLANT | 02242014 | 14 | 267 | 1164 WO | Work Order Comment | 3 13110815050733 |
| 14-267-364 | 14-1165 | REGENCY APTS | 02242014 | 14 | 267 | 364 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-364 | 14-1165 | REGENCY APTS | 02242014 | 14 | 267 | 364 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-364 | 14-1165 | REGENCY APTS | 02242014 | 14 | 267 | 364 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP |
| 14-267-364 | 14-1165 | REGENCY APTS | 02242014 | 14 | 267 | 1165 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-364 | 14-1165 | REGENCY APTS | 02242014 | 14 | 267 | 1165 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-37 | 14-117 | 1415 11TH AVE | 10112013 | 14 | 267 | 37 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-37 | 14-117 | 1415 11TH AVE | 10112013 | 14 | 267 | 37 WP | Completed Comments | 3 14022508450162 |
| 14-267-365 | 14-1175 | 5360 16TH AVE | 02252014 | 14 | 267 | 1175 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-365 | 14-1175 | 5360 16TH AVE | 02252014 | 14 | 267 | 1175 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 14-267-365 | 14-1175 | 5360 16TH AVE | 02252014 | 14 | 267 | 1175 WP | Completed Comments | 1 REPLACE MANH HOLE |
| 14-267-366 | 14-1177 | JAYCEE SOCCER COMPLEX | 02252014 | 14 | 267 | 1177 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-366 | 14-1177 | JAYCEE SOCCER COMPLEX | 02252014 | 14 | 267 | 1177 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-367 | 14-1178 | 615 22ND AVE S./GOODYEAR | 02252014 | 14 | 267 | 1178 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-368 | 14-1179 | 417 WINDOVER CIRCLE | 02252014 | 14 | 267 | 1179 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-368 | 14-1179 | 417 WINDOVER CIRCLE | 02252014 | 14 | 267 | 1179 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-38 | 14-118 | 1721 11TH AVE | 10112013 | 14 | 267 | 38 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-38 | 14-118 | 1721 11TH AVE | 10112013 | 14 | 267 | 38 WP | Completed Comments | 3 14022509270284 |
| 14-267-369 | 14-1180 | 815 S. MYRTLE DRIVE | 02252014 | 14 | 267 | 1180 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-369 | 14-1180 | 815 S. MYRTLE DRIVE | 02252014 | 14 | 267 | 1180 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-369 | 14-1180 | 815 S. MYRTLE DRIVE | 02252014 | 14 | 267 | 1180 WP | Completed Comments | 1 MANHOLE NEED REPAIRING |
| 14-267-370 | 14-1184 | MOSBY ROAD/WIN JOB CENTER | 02252014 | 14 | 267 | 1184 WO | Work Order Comment | 1 SMOKE SEWER |
| 14-267-370 | 14-1184 | MOSBY ROAD/WIN JOB CENTER | 02252014 | 14 | 267 | 1184 WP | Completed Comments | 1 NOT ON CITY SEWER |
| 14-267-371 | 14-1194 | 4109 HWY 39 N | 02262014 | 14 | 267 | 1194 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-371 | 14-1194 | 4109 HWY 39 N | 02262014 | 14 | 267 | 1194 WP | Completed Comments | 1 PROBLEM ON CUST |
| 14-267-372 | 14-1199 | 2711 40TH AVE | 02262014 | 14 | 267 | 1199 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-372 | 14-1199 | 2711 40TH AVE | 02262014 | 14 | 267 | 1199 WP | Completed Comments | 3 13111207580093 |
| 14-267-373 | 14-1200 | 1008 65TH AVE | 02262014 | 14 | 267 | 373 WO | Work Order Comment | 1 REPAIRED SEWER LINE |
| 14-267-373 | 14-1200 | 1008 65TH AVE | 02262014 | 14 | 267 | 373 WO | Work Order Comment | 1 CHECK MAIN LINE FOR BLOCKAGE |
| 14-267-373 | 14-1200 | 1008 65TH AVE | 02262014 | 14 | 267 | 373 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 14-267-373 | 14-1200 | 1008 65TH AVE | 02262014 | 14 | 267 | 1200 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-373 | 14-1200 | 1008 65TH AVE | 02262014 | 14 | 267 | 1200 WP | Completed Comments | 3 13111210250396 |
| 14-267-374 | 14-1207 | 2676 ST CHARLES STREET | 02272014 | 14 | 267 | 374 WO | Work Order Comment | 1 CALL IN LOCATE |
| 14-267-374 | 14-1207 | 2676 ST CHARLES STREET | 02272014 | 14 | 267 | 374 WO | Work Order Comment | |
| 14-267-374 | 14-1207 | 2676 ST CHARLES STREET | 02272014 | 14 | 267 | 374 WP | Completed Comments | |

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| 14-267-374 | 14-1207 | 2676 ST CHARLES STREET | 02272014 | 14 | 267 | 1207 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-374 | 14-1207 | 2676 ST CHARLES STREET | 02272014 | 14 | 267 | 1207 WP | Completed Comments | 1 REPAIRED 4" SEWER TAP |
| 14-267-375 | 14-1208 | 1511 52ND AVE | 02272014 | 14 | 267 | 1208 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-375 | 14-1208 | 1511 52ND AVE | 02272014 | 14 | 267 | 1208 WP | Completed Comments | 1 FLUSHED LINE/CLEANED UP AREA WHERE MANHOLE WAS RUNNING OVER |
| 14-267-376 | 14-1211 | 607 57TH AVE | 02272014 | 14 | 267 | 376 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 14-267-376 | 14-1211 | 607 57TH AVE | 02272014 | 14 | 267 | 376 WO | Work Order Comment | 3 13111214580829 |
| 14-267-376 | 14-1211 | 607 57TH AVE | 02272014 | 14 | 267 | 376 WP | Completed Comments | 1 CALLED IN LCOATE |
| 14-267-376 | 14-1211 | 607 57TH AVE | 02272014 | 14 | 267 | 1211 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-376 | 14-1211 | 607 57TH AVE | 02272014 | 14 | 267 | 1211 WO | Work Order Comment | 3 14022714110698 |
| 14-267-376 | 14-1211 | 607 57TH AVE | 02272014 | 14 | 267 | 1211 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-377 | 14-1220 | MOSBY RD/WIN JOB CENTER | 02282014 | 14 | 267 | 1220 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 14-267-378 | 14-1223 | 28TH AVE/NHS | 02282014 | 14 | 267 | 378 WO | Work Order Comment | 1 CHECK SEWER |
| 14-267-378 | 14-1223 | 28TH AVE/NHS | 02282014 | 14 | 267 | 378 WP | Completed Comments | 1 PROBLEM ON THE CUSTOMER |
| 14-267-378 | 14-1223 | 28TH AVE/NHS | 02282014 | 14 | 267 | 1223 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-378 | 14-1223 | 28TH AVE/NHS | 02282014 | 14 | 267 | 1223 WP | Completed Comments | 1 ON THE CUST |
| 14-267-379 | 14-1224 | 53RD AVE/MANNING ST | 02282014 | 14 | 267 | 379 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-379 | 14-1224 | 53RD AVE/MANNING ST | 02282014 | 14 | 267 | 379 WP | Completed Comments | 1 PROBLEM ON CUST |
| 14-267-379 | 14-1224 | 53RD AVE/MANNING ST | 02282014 | 14 | 267 | 1224 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-379 | 14-1224 | 53RD AVE/MANNING ST | 02282014 | 14 | 267 | 1224 WP | Completed Comments | 3 14022810080290 |
| 14-267-380 | 14-1228 | 5360 16TH AVE | 03032014 | 14 | 267 | 380 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-380 | 14-1228 | 5360 16TH AVE | 03032014 | 14 | 267 | 380 WP | Completed Comments | 1 SEWER LINE REPAIR |
| 14-267-380 | 14-1228 | 5360 16TH AVE | 03032014 | 14 | 267 | 380 WP | Completed Comments | 1 12" SEWER PIPE |
| 14-267-380 | 14-1228 | 5360 16TH AVE | 03032014 | 14 | 267 | 380 WP | Completed Comments | 2 2-12" SLEEVES |
| 14-267-380 | 14-1228 | 5360 16TH AVE | 03032014 | 14 | 267 | 1228 WO | Work Order Comment | 3 4 MJ KITS |
| 14-267-381 | 14-1230 | 1350 24TH ST- MAGNOLIA SCHOOL | 03032014 | 14 | 267 | 1230 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-381 | 14-1230 | 1350 24TH ST- MAGNOLIA SCHOOL | 03032014 | 14 | 267 | 1230 WP | Completed Comments | 1 SEWER TAP |
| 14-267-381 | 14-1230 | 1350 24TH ST- MAGNOLIA SCHOOL | 03032014 | 14 | 267 | 1230 WP | Completed Comments | 1 MADE 6" SEWER TAP |
| 14-267-381 | 14-1230 | 1350 24TH ST- MAGNOLIA SCHOOL | 03032014 | 14 | 267 | 1230 WP | Completed Comments | 2 6" TAPPING SADDLE |
| 14-267-382 | 14-1235 | 4925 24TH PLACE | 03032014 | 14 | 267 | 1235 WO | Work Order Comment | 3 6" SEWER PIPE |
| 14-267-382 | 14-1235 | 4925 24TH PLACE | 03032014 | 14 | 267 | 1235 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-383 | 14-1236 | FRANKBERRY CTS | 03032014 | 14 | 267 | 1236 WO | Work Order Comment | 1 FLUSHED LINE |
| 14-267-383 | 14-1236 | FRANKBERRY CTS | 03032014 | 14 | 267 | 1236 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 14-267-383 | 14-1236 | FRANKBERRY CTS | 03032014 | 14 | 267 | 1236 WP | Completed Comments | 1 FLUSHED THE LINE |
| 14-267-384 | 14-1237 | 1350 24TH ST | 03032014 | 14 | 267 | 1237 WO | Work Order Comment | 2 GREASE CLOGGED UP THE LINE |
| 14-267-384 | 14-1237 | 1350 24TH ST | 03032014 | 14 | 267 | 1237 WP | Completed Comments | 1 SEWER TAP |
| 14-267-384 | 14-1237 | 1350 24TH ST | 03032014 | 14 | 267 | 1237 WP | Completed Comments | 3 UPDATE 14030314160743 |
| 14-267-385 | 14-1244 | 4911 B-PLACE | 03042014 | 14 | 267 | 1244 WO | Work Order Comment | 1 CALLED IN UPDATED LOCATE |
| 14-267-385 | 14-1244 | 4911 B-PLACE | 03042014 | 14 | 267 | 1244 WO | Work Order Comment | 1 SMOKE SEWER |
| 14-267-385 | 14-1244 | 4911 B-PLACE | 03042014 | 14 | 267 | 1244 WP | Completed Comments | 3 14030414100771 |
| 14-267-385 | 14-1244 | 4911 B-PLACE | 03042014 | 14 | 267 | 1244 WP | Completed Comments | 1 SMOKED SEWER |
| 14-267-39 | 14-125 | 2026 32ND AVE | 10142013 | 14 | 267 | 39 WO | Work Order Comment | 2 CALLED IN LOCATE |
| 14-267-39 | 14-125 | 2026 32ND AVE | 10142013 | 14 | 267 | 39 WP | Completed Comments | 1 KILL SERVICE |
| 14-267-386 | 14-1256 | 410 WINDOVER CIRCLE | 03042014 | 14 | 267 | 386 WO | Work Order Comment | 1 KILLED SERVICE/LATERAL |
| 14-267-386 | 14-1256 | 410 WINDOVER CIRCLE | 03042014 | 14 | 267 | 386 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-386 | 14-1256 | 410 WINDOVER CIRCLE | 03042014 | 14 | 267 | 386 WP | Completed Comments | 3 13111414020683 |
| 14-267-386 | 14-1256 | 410 WINDOVER CIRCLE | 03042014 | 14 | 267 | 386 WP | Completed Comments | 1 TURNED OVER TO CREW/LINE NEEDS TO BE REPAIRED |
| 14-267-386 | 14-1256 | 410 WINDOVER CIRCLE | 03042014 | 14 | 267 | 1256 WO | Work Order Comment | 2 LOCATE CALLED IN |
| 14-267-386 | 14-1256 | 410 WINDOVER CIRCLE | 03042014 | 14 | 267 | 1256 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-387 | 14-1261 | LINDLEY RD/NEWELL RD | 03052014 | 14 | 267 | 1261 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-387 | 14-1261 | LINDLEY RD/NEWELL RD | 03052014 | 14 | 267 | 1261 WP | Completed Comments | 1 REPAIR MANHOLE |
| 14-267-388 | 14-1262 | 31ST ST/23RD AVE | 03052014 | 14 | 267 | 388 WO | Work Order Comment | 1 WE USED 2 BAGS OF CONCRETE TO REPAIR A MANHOLE |
| 14-267-388 | 14-1262 | 31ST ST/23RD AVE | 03052014 | 14 | 267 | 388 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-388 | 14-1262 | 31ST ST/23RD AVE | 03052014 | 14 | 267 | 1262 WO | Work Order Comment | 1 FLUSHED LINE |
| 14-267-388 | 14-1262 | 31ST ST/23RD AVE | 03052014 | 14 | 267 | 1262 WO | Work Order Comment | 1 CUT NEEDS ATTENTION |
| 14-267-388 | 14-1262 | 31ST ST/23RD AVE | 03052014 | 14 | 267 | 1262 WP | Completed Comments | 3 ADD TO PATCH LIST |
| 14-267-388 | 14-1262 | 31ST ST/23RD AVE | 03052014 | 14 | 267 | 1262 WP | Completed Comments | 1 DRESSED UP CUT |
| 14-267-389 | 14-1263 | 607 57TH AVE | 03052014 | 14 | 267 | 1263 WO | Work Order Comment | 2 ADDED TO PATCH LIST |
| 14-267-389 | 14-1263 | 607 57TH AVE | 03052014 | 14 | 267 | 1263 WP | Completed Comments | 1 SEWER CAVE IN |
| 14-267-389 | 14-1263 | 607 57TH AVE | 03052014 | 14 | 267 | 1263 WP | Completed Comments | 1 REPLACED SEWER CAVE IN |

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| 14-267-390 | 14-1266 | 3462 ST BLVD | 03052014 | 14 | 267 | 1266 WO | Work Order Comment | 1 SEWER BACKUP |
| 14-267-390 | 14-1266 | 3462 ST BLVD | 03052014 | 14 | 267 | 1266 WP | Completed Comments | 1 PROB ON THE CUST |
| 14-267-391 | 14-1267 | 59TH AVE/OLD HWY 80 WEST | 03052014 | 14 | 267 | 1267 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-391 | 14-1267 | 59TH AVE/OLD HWY 80 WEST | 03052014 | 14 | 267 | 1267 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP LINE |
| 14-267-391 | 14-1267 | 59TH AVE/OLD HWY 80 WEST | 03052014 | 14 | 267 | 1267 WP | Completed Comments | 2 GREASE IN LINE CAUSING BLOCKAGE |
| 14-267-40 | 14-127 | 1411 1/2 34TH AVE | 10142013 | 14 | 267 | 40 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-40 | 14-127 | 1411 1/2 34TH AVE | 10142013 | 14 | 267 | 40 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-392 | 14-1272 | 1425 MLK DR | 03062014 | 14 | 267 | 392 WO | Work Order Comment | 1 REPAIR LIFT STATION |
| 14-267-392 | 14-1272 | 1425 MLK DR | 03062014 | 14 | 267 | 392 WO | Work Order Comment | 3 13111313320607 |
| 14-267-392 | 14-1272 | 1425 MLK DR | 03062014 | 14 | 267 | 392 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-392 | 14-1272 | 1425 MLK DR | 03062014 | 14 | 267 | 1272 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-392 | 14-1272 | 1425 MLK DR | 03062014 | 14 | 267 | 1272 WP | Completed Comments | 1 PROB ON THE CUST |
| 14-267-393 | 14-1273 | 1121 38TH AVE | 03062014 | 14 | 267 | 1273 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-393 | 14-1273 | 1121 38TH AVE | 03062014 | 14 | 267 | 1273 WP | Completed Comments | 1 PROB ON CUST |
| 14-267-394 | 14-1280 | 4029 58TH PLACE | 03072014 | 14 | 267 | 1280 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-394 | 14-1280 | 4029 58TH PLACE | 03072014 | 14 | 267 | 1280 WP | Completed Comments | 1 6' OF 4" SEWER PIPE |
| 14-267-394 | 14-1280 | 4029 58TH PLACE | 03072014 | 14 | 267 | 1280 WP | Completed Comments | 2 2-4" PVC , CLAY |
| 14-267-395 | 14-1281 | 3009 WILLOW DRIVE | 03072014 | 14 | 267 | 1281 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-395 | 14-1281 | 3009 WILLOW DRIVE | 03072014 | 14 | 267 | 1281 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 14-267-396 | 14-1284 | 6010 PSD | 03072014 | 14 | 267 | 1284 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-396 | 14-1284 | 6010 PSD | 03072014 | 14 | 267 | 1284 WP | Completed Comments | 1 FLUSHED THE SEWER LINE TO UNSTOP LINE |
| 14-267-396 | 14-1284 | 6010 PSD | 03072014 | 14 | 267 | 1284 WP | Completed Comments | 2 ROOTS IN THE LINE CAUSING THE PROBLEM |
| 14-267-397 | 14-1288 | CHIP PICKERING DR | 03102014 | 14 | 267 | 1288 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-397 | 14-1288 | CHIP PICKERING DR | 03102014 | 14 | 267 | 1288 WO | Work Order Comment | 3 14031007340040 |
| 14-267-397 | 14-1288 | CHIP PICKERING DR | 03102014 | 14 | 267 | 1288 WO | Work Order Comment | 4 14031007370042 |
| 14-267-397 | 14-1288 | CHIP PICKERING DR | 03102014 | 14 | 267 | 1288 WP | Completed Comments | 1 REPAIRED SEWER MAIN |
| 14-267-398 | 14-1289 | OLD HWY 80 WEST #2 LS | 03102014 | 14 | 267 | 398 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-398 | 14-1289 | OLD HWY 80 WEST #2 LS | 03102014 | 14 | 267 | 398 WO | Work Order Comment | 3 13111414020683 |
| 14-267-398 | 14-1289 | OLD HWY 80 WEST #2 LS | 03102014 | 14 | 267 | 398 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-398 | 14-1289 | OLD HWY 80 WEST #2 LS | 03102014 | 14 | 267 | 1289 WO | Work Order Comment | 1 REPAIR/REPLACE MANHOLE LID |
| 14-267-398 | 14-1289 | OLD HWY 80 WEST #2 LS | 03102014 | 14 | 267 | 1289 WP | Completed Comments | 1 REPLACED MANHOLE LID |
| 14-267-398 | 14-1289 | OLD HWY 80 WEST #2 LS | 03102014 | 14 | 267 | 1289 WP | Completed Comments | 2 MANHOLE CASKET ,LID |
| 14-267-399 | 14-1293 | 6600 PSD - ALDERSGATE | 03102014 | 14 | 267 | 399 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-399 | 14-1293 | 6600 PSD - ALDERSGATE | 03102014 | 14 | 267 | 399 WO | Work Order Comment | 3 13111414000677 |
| 14-267-399 | 14-1293 | 6600 PSD - ALDERSGATE | 03102014 | 14 | 267 | 399 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-399 | 14-1293 | 6600 PSD - ALDERSGATE | 03102014 | 14 | 267 | 1293 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-399 | 14-1293 | 6600 PSD - ALDERSGATE | 03102014 | 14 | 267 | 1293 WP | Completed Comments | 1 ON US/LINE STOPPED UP/RAGS & GREASE CLOGGED LINE |
| 14-267-400 | 14-1296 | 71 HWY 19 N FEDEX | 03102014 | 14 | 267 | 400 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-400 | 14-1296 | 71 HWY 19 N FEDEX | 03102014 | 14 | 267 | 1296 WO | Work Order Comment | 1 SEWER PROBLEMS / MANHOLE OVERFLOWING |
| 14-267-400 | 14-1296 | 71 HWY 19 N FEDEX | 03102014 | 14 | 267 | 1296 WP | Completed Comments | 1 ON THE CUST/CUST LATERAL NEED REPAIRING |
| 14-267-401 | 14-1297 | 6600 PSD | 03102014 | 14 | 267 | 401 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-401 | 14-1297 | 6600 PSD | 03102014 | 14 | 267 | 1297 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-401 | 14-1297 | 6600 PSD | 03102014 | 14 | 267 | 1297 WP | Completed Comments | 1 FLUSHED LINE/GREASE HAD LINE CLOGGED UP |
| 14-267-402 | 14-1299 | 4622 PSD | 03102014 | 14 | 267 | 402 WO | Work Order Comment | 1 SMOKE SEWER |
| 14-267-402 | 14-1299 | 4622 PSD | 03102014 | 14 | 267 | 402 WP | Completed Comments | 1 SMOKED SEWER/NOT TIED ON CITY SEWER |
| 14-267-402 | 14-1299 | 4622 PSD | 03102014 | 14 | 267 | 1299 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-402 | 14-1299 | 4622 PSD | 03102014 | 14 | 267 | 1299 WP | Completed Comments | 1 ON THE CUST |
| 14-267-403 | 14-1300 | 423 49TH CT | 03102014 | 14 | 267 | 1300 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 14-267-403 | 14-1300 | 423 49TH CT | 03102014 | 14 | 267 | 1300 WP | Completed Comments | 1 ON US/LINE STOPPED UP BEHIND HOME |
| 14-267-404 | 14-1301 | 5802 MANNING ST | 03102014 | 14 | 267 | 404 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-404 | 14-1301 | 5802 MANNING ST | 03102014 | 14 | 267 | 1301 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-404 | 14-1301 | 5802 MANNING ST | 03102014 | 14 | 267 | 1301 WP | Completed Comments | 1 ON THE CUST |
| 14-267-405 | 14-1304 | 521 52ND AVE | 03112014 | 14 | 267 | 405 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-405 | 14-1304 | 521 52ND AVE | 03112014 | 14 | 267 | 405 WO | Work Order Comment | 3 13111414000677 |
| 14-267-405 | 14-1304 | 521 52ND AVE | 03112014 | 14 | 267 | 405 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-405 | 14-1304 | 521 52ND AVE | 03112014 | 14 | 267 | 1304 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-405 | 14-1304 | 521 52ND AVE | 03112014 | 14 | 267 | 1304 WP | Completed Comments | 1 REPAIRED SEWER PIPE |
| 14-267-406 | 14-1305 | 815 S. MYRTLE DRIVE | 03112014 | 14 | 267 | 1305 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-407 | 14-1306 | NEWELL RD/B PLACE | 03112014 | 14 | 267 | 407 WO | Work Order Comment | 1 SEWER LATERAL REPAIR |

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| 14-267-407 | 14-1306 | NEWELL RD/B PLACE | 03112014 | 14 | 267 | 1306 WO | Work Order Comment | 1 SEWER CAVE IN (2) |
| 14-267-408 | 14-1307 | 423 49TH COURT | 03112014 | 14 | 267 | 1307 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-408 | 14-1307 | 423 49TH COURT | 03112014 | 14 | 267 | 1307 WP | Completed Comments | 1 PROB ON US |
| 14-267-408 | 14-1307 | 423 49TH COURT | 03112014 | 14 | 267 | 1307 WP | Completed Comments | 2 FLUSHED LINE TO UNSTOP LINE |
| 14-267-44 | 14-131 | 2704 25TH ST | 10142013 | 14 | 267 | 44 WO | Work Order Comment | 3 GREASE IN THE LINE CAUSING BLOCKAGE |
| 14-267-44 | 14-131 | 2704 25TH ST | 10142013 | 14 | 267 | 44 WP | Completed Comments | 1 CHECK MANHOLE/SEWER PROBLEMS |
| 14-267-409 | 14-1311 | 1934 16TH AVE | 03112014 | 14 | 267 | 409 WO | Work Order Comment | 1 FLUSHED LINE |
| 14-267-409 | 14-1311 | 1934 16TH AVE | 03112014 | 14 | 267 | 409 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-410 | 14-1312 | 40313 38TH ST | 03112014 | 14 | 267 | 410 WO | Work Order Comment | 1 ON THE CUST/FLUSHED MANHOLE |
| 14-267-410 | 14-1312 | 40313 38TH ST | 03112014 | 14 | 267 | 410 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-411 | 14-1338 | 2012 LYNCH AVENUE(6TH AVENUE) | 03122014 | 14 | 267 | 411 WO | Work Order Comment | 1 ON THE CUST/FLUSHED MANHOLE |
| 14-267-411 | 14-1338 | 2012 LYNCH AVENUE(6TH AVENUE) | 03122014 | 14 | 267 | 411 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-411 | 14-1338 | 2012 LYNCH AVENUE(6TH AVENUE) | 03122014 | 14 | 267 | 411 WP | Completed Comments | 3 LOCATE #14031215050888 |
| 14-267-412 | 14-1340 | 3312 HILLSIDE RD | 03122014 | 14 | 267 | 412 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-412 | 14-1340 | 3312 HILLSIDE RD | 03122014 | 14 | 267 | 412 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-412 | 14-1340 | 3312 HILLSIDE RD | 03122014 | 14 | 267 | 412 WP | Completed Comments | 3 LOCATE #14031215070890 |
| 14-267-413 | 14-1351 | 1204 35TH | 03172014 | 14 | 267 | 413 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-413 | 14-1351 | 1204 35TH | 03172014 | 14 | 267 | 413 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-414 | 14-1352 | 1224 68TH CT | 03172014 | 14 | 267 | 414 WO | Work Order Comment | 1 PROBLEM ON CUST |
| 14-267-415 | 14-1353 | 2211 34TH AVE | 03172014 | 14 | 267 | 415 WO | Work Order Comment | 1 SEWER & WATER TAP |
| 14-267-415 | 14-1353 | 2211 34TH AVE | 03172014 | 14 | 267 | 415 WP | Completed Comments | 1 CHECK MANHOLE |
| 14-267-416 | 14-1354 | PINE CREEK APTS | 03172014 | 14 | 267 | 416 WO | Work Order Comment | 1 FLUSHED LINE TO UNSTOP BLOCKAGE |
| 14-267-416 | 14-1354 | PINE CREEK APTS | 03172014 | 14 | 267 | 416 WP | Completed Comments | 1 SEWER IN DITCH |
| 14-267-417 | 14-1365 | 1910 25TH AVE | 03172014 | 14 | 267 | 417 WO | Work Order Comment | 1 FLUSHED LINE TO UNSTOP BLOCKAGE FROM GREASE |
| 14-267-417 | 14-1365 | 1910 25TH AVE | 03172014 | 14 | 267 | 417 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-417 | 14-1365 | 1910 25TH AVE | 03172014 | 14 | 267 | 417 WP | Completed Comments | 3 14031709340318 |
| 14-267-418 | 14-1366 | 1627 15TH ST | 03172014 | 14 | 267 | 418 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-418 | 14-1366 | 1627 15TH ST | 03172014 | 14 | 267 | 418 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-419 | 14-1367 | 308 3RD AVE | 03172014 | 14 | 267 | 419 WO | Work Order Comment | 1 PROBLEM ON CUST |
| 14-267-419 | 14-1367 | 308 3RD AVE | 03172014 | 14 | 267 | 419 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-420 | 14-1373 | HOOPER ST/45TH AVE | 03182014 | 14 | 267 | 420 WO | Work Order Comment | 1 PROB ON CUST |
| 14-267-421 | 14-1377 | B STREET/RUBUSH AVE | 03182014 | 14 | 267 | 421 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 14-267-421 | 14-1377 | B STREET/RUBUSH AVE | 03182014 | 14 | 267 | 421 WP | Completed Comments | 1 SEWER CAVE IN |
| 14-267-421 | 14-1377 | B STREET/RUBUSH AVE | 03182014 | 14 | 267 | 421 WP | Completed Comments | 1 1-SECTION OF 14"X4" OF SEWER PIPE |
| 14-267-422 | 14-1384 | 4316 33RD AVE | 03182014 | 14 | 267 | 422 WO | Work Order Comment | 2 1-4" PVC TO CLAY COUPLIN |
| 14-267-422 | 14-1384 | 4316 33RD AVE | 03182014 | 14 | 267 | 422 WO | Work Order Comment | 3 1-BAG OF CONCRETE |
| 14-267-422 | 14-1384 | 4316 33RD AVE | 03182014 | 14 | 267 | 422 WP | Completed Comments | 1 SEWER REPAIR |
| 14-267-423 | 14-1389 | 2012 LYNCH AVE | 03192014 | 14 | 267 | 423 WO | Work Order Comment | 3 14031814540962 |
| 14-267-423 | 14-1389 | 2012 LYNCH AVE | 03192014 | 14 | 267 | 423 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-423 | 14-1389 | 2012 LYNCH AVE | 03192014 | 14 | 267 | 423 WP | Completed Comments | 1 SEWER TAP |
| 14-267-424 | 14-1391 | HWY 45 - NORTH PLANT | 03192014 | 14 | 267 | 424 WO | Work Order Comment | 3 14031914590905 |
| 14-267-425 | 14-1393 | 812 BRAGGS AVE | 03192014 | 14 | 267 | 425 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-425 | 14-1393 | 812 BRAGGS AVE | 03192014 | 14 | 267 | 425 WP | Completed Comments | 1 DRESS UP MANHOLE |
| 14-267-425 | 14-1393 | 812 BRAGGS AVE | 03192014 | 14 | 267 | 425 WP | Completed Comments | 1 SEWER CAVE IN |
| 14-267-426 | 14-1396 | PINECREEKS APTS | 03202014 | 14 | 267 | 426 WO | Work Order Comment | 1 1-SEC OF 8" SEWER PIPE |
| 14-267-426 | 14-1396 | PINECREEKS APTS | 03202014 | 14 | 267 | 426 WP | Completed Comments | 2 2-8" PVC TO CLAY COUPLIN TO REPAIR A 8" SEWER MAIN |
| 14-267-426 | 14-1396 | PINECREEKS APTS | 03202014 | 14 | 267 | 426 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-427 | 14-1397 | 1121 48TH AVE | 03202014 | 14 | 267 | 427 WO | Work Order Comment | 1 ON US/FLUSHED LINE |
| 14-267-427 | 14-1397 | 1121 48TH AVE | 03202014 | 14 | 267 | 427 WP | Completed Comments | 2 GREASE IN LINE |
| 14-267-428 | 14-1400 | 601 25TH AVE | 03202014 | 14 | 267 | 428 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-428 | 14-1400 | 601 25TH AVE | 03202014 | 14 | 267 | 428 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 14-267-428 | 14-1400 | 601 25TH AVE | 03202014 | 14 | 267 | 428 WP | Completed Comments | 1 SEWER CAVE IN |
| 14-267-429 | 14-1404 | 1604 43RD AVE | 03202014 | 14 | 267 | 429 WO | Work Order Comment | 1 WE REPACKED W/ DIRT/PATCHED CUT 44-3 |
| 14-267-429 | 14-1404 | 1604 43RD AVE | 03202014 | 14 | 267 | 429 WP | Completed Comments | 2 REPAIRED SEWER CAVE IN |
| 14-267-430 | 14-1408 | 3312 HILLSIDE RD | 03212014 | 14 | 267 | 430 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-430 | 14-1408 | 3312 HILLSIDE RD | 03212014 | 14 | 267 | 430 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-430 | 14-1408 | 3312 HILLSIDE RD | 03212014 | 14 | 267 | 430 WP | Completed Comments | 1 SEWER TAP |
| | | | | | | | | 1 1-4" TAPPING SADDLE |
| | | | | | | | | 2 2-SEC OF 14"X4" SEWER PIPE |

| | | | | | | | | |
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| 14-267-431 | 14-1409 | 1910 25TH AVE | 03212014 | 14 | 267 | 431 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-46 | 14-141 | 513 55TH AVE | 10142013 | 14 | 267 | 46 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-46 | 14-141 | 513 55TH AVE | 10142013 | 14 | 267 | 46 WO | Work Order Comment | 3 13100713530876 |
| 14-267-46 | 14-141 | 513 55TH AVE | 10142013 | 14 | 267 | 46 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-432 | 14-1410 | 2012 LYNCH AVE | 03212014 | 14 | 267 | 432 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-432 | 14-1410 | 2012 LYNCH AVE | 03212014 | 14 | 267 | 432 WP | Completed Comments | 1 USED 2-SEC OF 14"X4" OF SEWER PIPE |
| 14-267-432 | 14-1410 | 2012 LYNCH AVE | 03212014 | 14 | 267 | 432 WP | Completed Comments | 2 1-4" TAPPING SADDLE |
| 14-267-432 | 14-1410 | 2012 LYNCH AVE | 03212014 | 14 | 267 | 432 WP | Completed Comments | 3 1-4" PVC TO PVC COUPLIN |
| 14-267-433 | 14-1413 | 4901 14TH ST | 03212014 | 14 | 267 | 433 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-433 | 14-1413 | 4901 14TH ST | 03212014 | 14 | 267 | 433 WP | Completed Comments | 1 UNSTOP LINE/ON US |
| 14-267-434 | 14-1414 | FRANKBERRY CTS | 03242014 | 14 | 267 | 434 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-434 | 14-1414 | FRANKBERRY CTS | 03242014 | 14 | 267 | 434 WP | Completed Comments | 1 FLUSHED LINE/STOPPED UP WITH GREASE |
| 14-267-47 | 14-142 | 1 ROBBINS LANE | 10142013 | 14 | 267 | 47 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-47 | 14-142 | 1 ROBBINS LANE | 10142013 | 14 | 267 | 47 WO | Work Order Comment | 3 13100713540883 |
| 14-267-47 | 14-142 | 1 ROBBINS LANE | 10142013 | 14 | 267 | 47 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-435 | 14-1422 | 1519 17TH AVE | 03252014 | 14 | 267 | 435 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-436 | 14-1424 | 5106 WEST GATES HILLS DRIVE | 03252014 | 14 | 267 | 436 WO | Work Order Comment | 1 SMOKE SEWER |
| 14-267-437 | 14-1426 | 4202 NORTH HILLS ST | 03252014 | 14 | 267 | 437 WO | Work Order Comment | 1 SEWER MAIN REPAIR |
| 14-267-437 | 14-1426 | 4202 NORTH HILLS ST | 03252014 | 14 | 267 | 437 WO | Work Order Comment | 3 14032513270762 |
| 14-267-437 | 14-1426 | 4202 NORTH HILLS ST | 03252014 | 14 | 267 | 437 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-438 | 14-1440 | 2751 44TH AVE | 03262014 | 14 | 267 | 438 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-438 | 14-1440 | 2751 44TH AVE | 03262014 | 14 | 267 | 438 WP | Completed Comments | 1 ON THE CUST |
| 14-267-439 | 14-1451 | 33RD AVE/3RD ST | 03272014 | 14 | 267 | 439 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-439 | 14-1451 | 33RD AVE/3RD ST | 03272014 | 14 | 267 | 439 WO | Work Order Comment | 3 14032814420789 |
| 14-267-439 | 14-1451 | 33RD AVE/3RD ST | 03272014 | 14 | 267 | 439 WP | Completed Comments | 1 CALLED IN LOCATEWER LAT NEEDS REPAIRING |
| 14-267-440 | 14-1452 | B ST/10TH AVE S | 03272014 | 14 | 267 | 440 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-440 | 14-1452 | B ST/10TH AVE S | 03272014 | 14 | 267 | 440 WO | Work Order Comment | 3 14032708500187 |
| 14-267-440 | 14-1452 | B ST/10TH AVE S | 03272014 | 14 | 267 | 440 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-441 | 14-1453 | 4917 3RD ST | 03272014 | 14 | 267 | 441 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-441 | 14-1453 | 4917 3RD ST | 03272014 | 14 | 267 | 441 WO | Work Order Comment | 3 14032709210282 |
| 14-267-441 | 14-1453 | 4917 3RD ST | 03272014 | 14 | 267 | 441 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-442 | 14-1455 | METRO AMBULANCE 17TH AVE/5TH ST | 03272014 | 14 | 267 | 442 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-442 | 14-1455 | METRO AMBULANCE 17TH AVE/5TH ST | 03272014 | 14 | 267 | 442 WP | Completed Comments | 1 PROBLEM ON CUST |
| 14-267-443 | 14-1456 | 5725 HWY 39 N | 03272014 | 14 | 267 | 443 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-443 | 14-1456 | 5725 HWY 39 N | 03272014 | 14 | 267 | 443 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-443 | 14-1456 | 5725 HWY 39 N | 03272014 | 14 | 267 | 443 WP | Completed Comments | 2 WASHED DOWN/CLEANED AREA |
| 14-267-444 | 14-1462 | 2011 33RD AVE | 03282014 | 14 | 267 | 444 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-444 | 14-1462 | 2011 33RD AVE | 03282014 | 14 | 267 | 444 WP | Completed Comments | 1 ON THE CUST |
| 14-267-445 | 14-1463 | 4023 26TH ST | 03282014 | 14 | 267 | 445 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-445 | 14-1463 | 4023 26TH ST | 03282014 | 14 | 267 | 445 WP | Completed Comments | 1 FLUSH LINE |
| 14-267-446 | 14-1464 | FRANKBERRY CTS | 03282014 | 14 | 267 | 446 WO | Work Order Comment | 1 MANHOLE NEEDS ATTENTION |
| 14-267-447 | 14-1465 | 5017 24TH AVE | 03282014 | 14 | 267 | 447 WO | Work Order Comment | 1 SMOKE SEWER |
| 14-267-447 | 14-1465 | 5017 24TH AVE | 03282014 | 14 | 267 | 447 WP | Completed Comments | 1 SMOKED SEWER |
| 14-267-447 | 14-1465 | 5017 24TH AVE | 03282014 | 14 | 267 | 447 WP | Completed Comments | 2 NOT TIED ON CITY SEWER |
| 14-267-448 | 14-1469 | 609 65TH AVE | 03282014 | 14 | 267 | 448 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-448 | 14-1469 | 609 65TH AVE | 03282014 | 14 | 267 | 448 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-449 | 14-1470 | 1619 17TH AVE | 03282014 | 14 | 267 | 449 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-449 | 14-1470 | 1619 17TH AVE | 03282014 | 14 | 267 | 449 WO | Work Order Comment | 3 14032808480145 |
| 14-267-449 | 14-1470 | 1619 17TH AVE | 03282014 | 14 | 267 | 449 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-450 | 14-1471 | 1617 17TH AVE | 03282014 | 14 | 267 | 450 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-450 | 14-1471 | 1617 17TH AVE | 03282014 | 14 | 267 | 450 WO | Work Order Comment | 3 14032808490149 |
| 14-267-450 | 14-1471 | 1617 17TH AVE | 03282014 | 14 | 267 | 450 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-451 | 14-1472 | 1629 16TH AVE | 03282014 | 14 | 267 | 451 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-451 | 14-1472 | 1629 16TH AVE | 03282014 | 14 | 267 | 451 WO | Work Order Comment | 3 14032808510155 |
| 14-267-451 | 14-1472 | 1629 16TH AVE | 03282014 | 14 | 267 | 451 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-452 | 14-1473 | 1815 11TH AVE | 03282014 | 14 | 267 | 452 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-452 | 14-1473 | 1815 11TH AVE | 03282014 | 14 | 267 | 452 WO | Work Order Comment | 3 1403280852015 |
| 14-267-452 | 14-1473 | 1815 11TH AVE | 03282014 | 14 | 267 | 452 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-453 | 14-1474 | 4715 PAULDING ST | 03282014 | 14 | 267 | 453 WO | Work Order Comment | 1 KILL SEWER SERVICE |

| | | | | | | | | |
|------------|---------|-----------------------|----------|----|-----|--------|--------------------|--|
| 14-267-453 | 14-1474 | 4715 PAULDING ST | 03282014 | 14 | 267 | 453 WO | Work Order Comment | 3 140328 |
| 14-267-454 | 14-1475 | 1306 29TH AVE | 03282014 | 14 | 267 | 454 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-454 | 14-1475 | 1306 29TH AVE | 03282014 | 14 | 267 | 454 WO | Work Order Comment | 3 140328 |
| 14-267-455 | 14-1476 | 2218 10TH AVE | 03282014 | 14 | 267 | 455 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-455 | 14-1476 | 2218 10TH AVE | 03282014 | 14 | 267 | 455 WO | Work Order Comment | 3 140328 |
| 14-267-456 | 14-1478 | 224 3RD AVE | 03282014 | 14 | 267 | 456 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-456 | 14-1478 | 224 3RD AVE | 03282014 | 14 | 267 | 456 WO | Work Order Comment | 3 14032810510428 |
| 14-267-456 | 14-1478 | 224 3RD AVE | 03282014 | 14 | 267 | 456 WO | Work Order Comment | 4 14032810490422 |
| 14-267-456 | 14-1478 | 224 3RD AVE | 03282014 | 14 | 267 | 456 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-457 | 14-1479 | 2308 10TH AVE | 03282014 | 14 | 267 | 457 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-457 | 14-1479 | 2308 10TH AVE | 03282014 | 14 | 267 | 457 WO | Work Order Comment | 3 14032810520430 |
| 14-267-457 | 14-1479 | 2308 10TH AVE | 03282014 | 14 | 267 | 457 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-458 | 14-1480 | 3017 43RD AVE | 03282014 | 14 | 267 | 458 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-458 | 14-1480 | 3017 43RD AVE | 03282014 | 14 | 267 | 458 WO | Work Order Comment | 3 14032810530435 |
| 14-267-458 | 14-1480 | 3017 43RD AVE | 03282014 | 14 | 267 | 458 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-459 | 14-1481 | 5938 1ST ST | 03282014 | 14 | 267 | 459 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-459 | 14-1481 | 5938 1ST ST | 03282014 | 14 | 267 | 459 WO | Work Order Comment | 3 14032810550442 |
| 14-267-459 | 14-1481 | 5938 1ST ST | 03282014 | 14 | 267 | 459 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-460 | 14-1484 | 33RD AVE / 3RD ST | 03282014 | 14 | 267 | 460 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-460 | 14-1484 | 33RD AVE / 3RD ST | 03282014 | 14 | 267 | 460 WO | Work Order Comment | 3 140328 |
| 14-267-461 | 14-1496 | 2311 35TH AVE | 03312014 | 14 | 267 | 461 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-461 | 14-1496 | 2311 35TH AVE | 03312014 | 14 | 267 | 461 WP | Completed Comments | 1 ON THE CUST/FLUSHED LINE |
| 14-267-48 | 14-150 | 4219 33RD AVE | 10152013 | 14 | 267 | 48 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-48 | 14-150 | 4219 33RD AVE | 10152013 | 14 | 267 | 48 WO | Work Order Comment | 3 13100713520869 |
| 14-267-48 | 14-150 | 4219 33RD AVE | 10152013 | 14 | 267 | 48 WP | Completed Comments | 1 CALL IN LOCATE |
| 14-267-462 | 14-1504 | 2715 28TH ST | 03312014 | 14 | 267 | 462 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-462 | 14-1504 | 2715 28TH ST | 03312014 | 14 | 267 | 462 WO | Work Order Comment | 3 14033114220976 |
| 14-267-462 | 14-1504 | 2715 28TH ST | 03312014 | 14 | 267 | 462 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-463 | 14-1507 | B STREET/10TH AVE | 04012014 | 14 | 267 | 463 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 14-267-463 | 14-1507 | B STREET/10TH AVE | 04012014 | 14 | 267 | 463 WP | Completed Comments | 1 1-SEC PF SEWER PIPE 14"X11"X24" |
| 14-267-463 | 14-1507 | B STREET/10TH AVE | 04012014 | 14 | 267 | 463 WP | Completed Comments | 2 6 YARDS OF CONCRETE |
| 14-267-463 | 14-1507 | B STREET/10TH AVE | 04012014 | 14 | 267 | 463 WP | Completed Comments | 3 1-SEC OF 8"X6' OF SEWER PIPE 1- MANHOLE RAISER |
| 14-267-49 | 14-151 | 4320 36TH AVE APT A-4 | 10152013 | 14 | 267 | 49 WO | Work Order Comment | 4 1-8" PVC TO CLAY COUPLING 1-MANHOLE CASKET ASPHALT CUT |
| 14-267-49 | 14-151 | 4320 36TH AVE APT A-4 | 10152013 | 14 | 267 | 49 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-49 | 14-151 | 4320 36TH AVE APT A-4 | 10152013 | 14 | 267 | 49 WP | Completed Comments | 3 13100713500866 |
| 14-267-464 | 14-1539 | B ST/10TH AVE SOUTH | 04032014 | 14 | 267 | 464 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-464 | 14-1539 | B ST/10TH AVE SOUTH | 04032014 | 14 | 267 | 464 WP | Completed Comments | 1 DRESS UP |
| 14-267-465 | 14-1542 | 4932 5TH AVE | 04032014 | 14 | 267 | 465 WO | Work Order Comment | 1 8-TONS OF ASPHALT TO COMPLETE DRESS UP |
| 14-267-465 | 14-1542 | 4932 5TH AVE | 04032014 | 14 | 267 | 465 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-465 | 14-1542 | 4932 5TH AVE | 04032014 | 14 | 267 | 465 WP | Completed Comments | 3 14040315090957 |
| 14-267-466 | 14-1543 | 4917 3RD ST | 04032014 | 14 | 267 | 466 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-466 | 14-1543 | 4917 3RD ST | 04032014 | 14 | 267 | 466 WP | Completed Comments | 1 KILL SEWER SERVICE |
| 14-267-467 | 14-1547 | 2218 10TH AVE | 04032014 | 14 | 267 | 467 WO | Work Order Comment | 1 1-BAG OF CONCRETE TO KILL SEWER SERVICE |
| 14-267-467 | 14-1547 | 2218 10TH AVE | 04032014 | 14 | 267 | 467 WP | Completed Comments | 1 KILL SEWER SERVICE |
| 14-267-468 | 14-1548 | 1306 29TH AVE | 04032014 | 14 | 267 | 468 WO | Work Order Comment | 1 FLUSHED LINE |
| 14-267-469 | 14-1549 | 4715 PAULDING ST | 04032014 | 14 | 267 | 469 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-469 | 14-1549 | 4715 PAULDING ST | 04032014 | 14 | 267 | 469 WP | Completed Comments | 1 KILL SEWER SERVICE |
| 14-267-470 | 14-1551 | 538 BROOKWOOD LN | 04042014 | 14 | 267 | 470 WO | Work Order Comment | 1 FLUSHED LINE TO RESOLVE ISSUE |
| 14-267-470 | 14-1551 | 538 BROOKWOOD LN | 04042014 | 14 | 267 | 470 WP | Completed Comments | 1 SEWER TAP |
| 14-267-471 | 14-1555 | 809 45TH AVE | 04042014 | 14 | 267 | 471 WO | Work Order Comment | 1 PROBLEM ON CUST |
| 14-267-471 | 14-1555 | 809 45TH AVE | 04042014 | 14 | 267 | 471 WP | Completed Comments | 1 SEWER BACK UP |
| 14-267-472 | 14-1561 | 6119 32ND ST | 04072014 | 14 | 267 | 472 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-472 | 14-1561 | 6119 32ND ST | 04072014 | 14 | 267 | 472 WP | Completed Comments | 1 SEWER BACK UP |
| 14-267-473 | 14-1565 | 5223 LAKEWOOD DR | 04072014 | 14 | 267 | 473 WO | Work Order Comment | 1 MANHOLE OVERFLOWING DUE TO EXCESS OF HEAVY RAIN |
| 14-267-473 | 14-1565 | 5223 LAKEWOOD DR | 04072014 | 14 | 267 | 473 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-474 | 14-1568 | 470 56TH AVE | 04072014 | 14 | 267 | 474 WO | Work Order Comment | 1 MANHOLE OVERFLOWING DUE TO EXCESSIVE HEAVY RAIN |
| 14-267-474 | 14-1568 | 470 56TH AVE | 04072014 | 14 | 267 | 474 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-474 | 14-1568 | 470 56TH AVE | 04072014 | 14 | 267 | 474 WP | Completed Comments | 1 ON THE CUST |
| 14-267-474 | 14-1568 | 470 56TH AVE | 04072014 | 14 | 267 | 474 WP | Completed Comments | 2 MAIN LINE OPEN AND CLEAR |

| | | | | | | | | |
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| 14-267-475 | 14-1569 | 4300 PSD | 04072014 | 14 | 267 | 475 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-475 | 14-1569 | 4300 PSD | 04072014 | 14 | 267 | 475 WP | Completed Comments | 1 ON THE CUST |
| 14-267-476 | 14-1570 | 705 46TH AVE | 04072014 | 14 | 267 | 476 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-476 | 14-1570 | 705 46TH AVE | 04072014 | 14 | 267 | 476 WP | Completed Comments | 1 ON THE CUST/CHECKED LINE/OPEN AND CLEAR |
| 14-267-477 | 14-1571 | 2403 HWY 39 N | 04072014 | 14 | 267 | 477 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-477 | 14-1571 | 2403 HWY 39 N | 04072014 | 14 | 267 | 477 WP | Completed Comments | 1 SHOT THE SEWER LINE/ OPEN AND CLEAR: |
| 14-267-477 | 14-1571 | 2403 HWY 39 N | 04072014 | 14 | 267 | 477 WP | Completed Comments | 2 ADVISED CUST TO GET A PLUMBER TO EXPOSE THE PROBLEM IN THE |
| 14-267-477 | 14-1571 | 2403 HWY 39 N | 04072014 | 14 | 267 | 477 WP | Completed Comments | 3 LINE |
| 14-267-478 | 14-1579 | 1107 MYRTLE DRIVE | 04082014 | 14 | 267 | 478 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-478 | 14-1579 | 1107 MYRTLE DRIVE | 04082014 | 14 | 267 | 478 WP | Completed Comments | 1 MANHOLE OVERFLOWING DUE TO EXCESSIVE AMOUNT OF HEAVY RAIN |
| 14-267-479 | 14-1580 | 2012 HWY 45 N | 04082014 | 14 | 267 | 479 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-479 | 14-1580 | 2012 HWY 45 N | 04082014 | 14 | 267 | 479 WP | Completed Comments | 1 MANHOLE OVERFLOWING DUE TO EXCESSIVE HEAVY RAIN |
| 14-267-480 | 14-1583 | 62ND AVE/37TH-38TH ST | 04082014 | 14 | 267 | 480 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-480 | 14-1583 | 62ND AVE/37TH-38TH ST | 04082014 | 14 | 267 | 480 WP | Completed Comments | 1 MANHOLE RUNNING OVER DUE TO EXCESS OF HEAVY RAIN |
| 14-267-60 | 14-184 | 906 16TH ST | 10212013 | 14 | 267 | 60 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-60 | 14-184 | 906 16TH ST | 10212013 | 14 | 267 | 60 WP | Completed Comments | 1 LINE STOPPED UP/FLUSHED LINE TO RESOLVE ISSUE |
| 14-267-7 | 14-20 | 1116 28TH AVE | 10032013 | 14 | 267 | 7 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-7 | 14-20 | 1116 28TH AVE | 10032013 | 14 | 267 | 7 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-76 | 14-224 | 3405 2ND ST | 10232013 | 14 | 267 | 76 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-76 | 14-224 | 3405 2ND ST | 10232013 | 14 | 267 | 76 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-77 | 14-225 | 1822 33RD AVE | 10232013 | 14 | 267 | 77 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-77 | 14-225 | 1822 33RD AVE | 10232013 | 14 | 267 | 77 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-78 | 14-226 | 3115 9TH AVE | 10232013 | 14 | 267 | 78 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-78 | 14-226 | 3115 9TH AVE | 10232013 | 14 | 267 | 78 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-8 | 14-23 | 15TH ST/48TH-49TH AVE | 10032013 | 14 | 267 | 8 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-8 | 14-23 | 15TH ST/48TH-49TH AVE | 10032013 | 14 | 267 | 8 WP | Completed Comments | 1 NO SEWER PROBLEMS/TURNED OVER TO STREET DEPT |
| 14-267-79 | 14-231 | FRONT ST/26TH AVE | 10232013 | 14 | 267 | 79 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-79 | 14-231 | FRONT ST/26TH AVE | 10232013 | 14 | 267 | 79 WP | Completed Comments | 1 KILL SERVICE/LATERAL |
| 14-267-80 | 14-242 | 4311 5TH ST | 10242013 | 14 | 267 | 80 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-80 | 14-242 | 4311 5TH ST | 10242013 | 14 | 267 | 80 WP | Completed Comments | 1 KILL SERVICE |
| 14-267-83 | 14-246 | 2021 31ST ST | 10242013 | 14 | 267 | 83 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-83 | 14-246 | 2021 31ST ST | 10242013 | 14 | 267 | 83 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-84 | 14-256 | 2704 25TH ST | 10252013 | 14 | 267 | 84 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-84 | 14-256 | 2704 25TH ST | 10252013 | 14 | 267 | 84 WP | Completed Comments | 1 ON US/LINE TO BUILDING WAS BROKEN DOWN |
| 14-267-87 | 14-259 | 1822 33RD AVE | 10252013 | 14 | 267 | 87 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-87 | 14-259 | 1822 33RD AVE | 10252013 | 14 | 267 | 87 WP | Completed Comments | 1 LINE STOPPED UP/FLUSHED LINE |
| 14-267-2 | 14-3 | 2211 34TH ST | 10022013 | 14 | 267 | 2 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 14-267-2 | 14-3 | 2211 34TH ST | 10022013 | 14 | 267 | 2 WP | Completed Comments | 1 KILLED LATERAL |
| 14-267-111 | 14-337 | APAC/WASTE MANAGEMENT | 11062013 | 14 | 267 | 111 WO | Work Order Comment | 1 CHECK MANHOLE/SEWER PROBLEMS |
| 14-267-111 | 14-337 | APAC/WASTE MANAGEMENT | 11062013 | 14 | 267 | 111 WP | Completed Comments | 1 LINE STOPPED UP/FLUSHED LINE |
| 14-267-17 | 14-34 | 1513 14TH AVE | 10042013 | 14 | 267 | 17 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-17 | 14-34 | 1513 14TH AVE | 10042013 | 14 | 267 | 17 WP | Completed Comments | 1 1 BAG OF CONCRETE |
| 14-267-18 | 14-37 | 1103 36TH AVE | 10072013 | 14 | 267 | 18 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-18 | 14-37 | 1103 36TH AVE | 10072013 | 14 | 267 | 18 WP | Completed Comments | 1 1 BAG OF CONCRETE |
| 14-267-117 | 14-373 | 1519 17TH AVE | 11122013 | 14 | 267 | 117 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-117 | 14-373 | 1519 17TH AVE | 11122013 | 14 | 267 | 117 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-118 | 14-374 | 10TH AVE/B ST | 11122013 | 14 | 267 | 118 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-118 | 14-374 | 10TH AVE/B ST | 11122013 | 14 | 267 | 118 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-20 | 14-39 | 1422 35TH AVE | 10072013 | 14 | 267 | 20 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-20 | 14-39 | 1422 35TH AVE | 10072013 | 14 | 267 | 20 WP | Completed Comments | 1 1 BAG OF CEMENT |
| 14-267-125 | 14-392 | WINDMILL DR/HWY 39 S | 11132013 | 14 | 267 | 125 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-127 | 14-399 | 210 22ND AVE | 11142013 | 14 | 267 | 127 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-127 | 14-399 | 210 22ND AVE | 11142013 | 14 | 267 | 127 WO | Work Order Comment | 3 13101408290123 |
| 14-267-127 | 14-399 | 210 22ND AVE | 11142013 | 14 | 267 | 127 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-128 | 14-400 | 10TH AVE / B ST | 11142013 | 14 | 267 | 128 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-128 | 14-400 | 10TH AVE / B ST | 11142013 | 14 | 267 | 128 WO | Work Order Comment | 3 13101407590064 |
| 14-267-128 | 14-400 | 10TH AVE / B ST | 11142013 | 14 | 267 | 128 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-129 | 14-401 | 505 S. FRONTAGE RD | 11142013 | 14 | 267 | 129 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-129 | 14-401 | 505 S. FRONTAGE RD | 11142013 | 14 | 267 | 129 WO | Work Order Comment | 3 13101408010065 |

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|------------|--------|----------------------------------|----------|----|-----|--------|--------------------|---|
| 14-267-129 | 14-401 | 505 S. FRONTAGE RD | 11142013 | 14 | 267 | 129 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-130 | 14-402 | 5360 16TH AVE | 11142013 | 14 | 267 | 130 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-130 | 14-402 | 5360 16TH AVE | 11142013 | 14 | 267 | 130 WO | Work Order Comment | 3 13101408020067 |
| 14-267-130 | 14-402 | 5360 16TH AVE | 11142013 | 14 | 267 | 130 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-131 | 14-404 | 1521 49TH AVE | 11142013 | 14 | 267 | 131 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-131 | 14-404 | 1521 49TH AVE | 11142013 | 14 | 267 | 131 WO | Work Order Comment | 3 13101408350132 |
| 14-267-131 | 14-404 | 1521 49TH AVE | 11142013 | 14 | 267 | 131 WP | Completed Comments | 1 CALL IN LOCATE |
| 14-267-136 | 14-428 | 3722 ROYAL RD | 11182013 | 14 | 267 | 136 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-136 | 14-428 | 3722 ROYAL RD | 11182013 | 14 | 267 | 136 WP | Completed Comments | 1 SEWER PROBLEMS ON THE CUST |
| 14-267-141 | 14-439 | 3818 29TH ST | 11192013 | 14 | 267 | 141 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-141 | 14-439 | 3818 29TH ST | 11192013 | 14 | 267 | 141 WO | Work Order Comment | 3 13101014050749 |
| 14-267-141 | 14-439 | 3818 29TH ST | 11192013 | 14 | 267 | 141 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-142 | 14-440 | CHIP PICKERING /JOHN C STENNIS | 11192013 | 14 | 267 | 142 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-142 | 14-440 | CHIP PICKERING /JOHN C STENNIS | 11192013 | 14 | 267 | 142 WP | Completed Comments | 1 FLUSHED ON LINE |
| 14-267-23 | 14-46 | 1415 11TH AVE | 10072013 | 14 | 267 | 23 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-23 | 14-46 | 1415 11TH AVE | 10072013 | 14 | 267 | 23 WO | Work Order Comment | 3 13100310010283 |
| 14-267-23 | 14-46 | 1415 11TH AVE | 10072013 | 14 | 267 | 23 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-150 | 14-461 | 2211 34TH AVE | 11222013 | 14 | 267 | 150 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-150 | 14-461 | 2211 34TH AVE | 11222013 | 14 | 267 | 150 WP | Completed Comments | 1 FLUSHED LINE GOOD |
| 14-267-151 | 14-465 | 308 3RD AVE | 11222013 | 14 | 267 | 151 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-151 | 14-465 | 308 3RD AVE | 11222013 | 14 | 267 | 151 WP | Completed Comments | 1 ON THE CUST |
| 14-267-152 | 14-466 | 415 51ST ST | 11222013 | 14 | 267 | 152 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-152 | 14-466 | 415 51ST ST | 11222013 | 14 | 267 | 152 WP | Completed Comments | 1 ON THE CUSTOMER |
| 14-267-158 | 14-477 | 107 51ST AVE | 11252013 | 14 | 267 | 158 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-158 | 14-477 | 107 51ST AVE | 11252013 | 14 | 267 | 158 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-162 | 14-481 | 1818 30TH AVE | 11252013 | 14 | 267 | 481 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-162 | 14-481 | 1818 30TH AVE | 11252013 | 14 | 267 | 481 WO | Work Order Comment | 3 13112510130287 |
| 14-267-162 | 14-481 | 1818 30TH AVE | 11252013 | 14 | 267 | 481 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-163 | 14-482 | 204 25TH AVE S | 11252013 | 14 | 267 | 482 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-163 | 14-482 | 204 25TH AVE S | 11252013 | 14 | 267 | 482 WO | Work Order Comment | 3 13112510140289 |
| 14-267-163 | 14-482 | 204 25TH AVE S | 11252013 | 14 | 267 | 482 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-164 | 14-486 | 6203 14TH AVE | 11262013 | 14 | 267 | 486 WO | Work Order Comment | 1 CAMERA THE SEWER LINE |
| 14-267-164 | 14-486 | 6203 14TH AVE | 11262013 | 14 | 267 | 486 WP | Completed Comments | 1 CAMERA THE LINE |
| 14-267-165 | 14-488 | 1522 48TH AVE | 11262013 | 14 | 267 | 488 WO | Work Order Comment | 1 CHECK FOR SEWER |
| 14-267-165 | 14-488 | 1522 48TH AVE | 11262013 | 14 | 267 | 488 WO | Work Order Comment | 3 13112610380236 |
| 14-267-165 | 14-488 | 1522 48TH AVE | 11262013 | 14 | 267 | 488 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-26 | 14-49 | 1303 16TH ST | 10072013 | 14 | 267 | 26 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-26 | 14-49 | 1303 16TH ST | 10072013 | 14 | 267 | 26 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-166 | 14-490 | 2534 26TH ST | 11262013 | 14 | 267 | 166 WO | Work Order Comment | 1 REPAIR SEWER CAVE IN |
| 14-267-166 | 14-490 | 2534 26TH ST | 11262013 | 14 | 267 | 166 WP | Completed Comments | 1 3' - 6" SEWER PIPE |
| 14-267-166 | 14-490 | 2534 26TH ST | 11262013 | 14 | 267 | 166 WP | Completed Comments | 2 2 - 6" PVC/ CLAY MISSION COUPLING |
| 14-267-166 | 14-490 | 2534 26TH ST | 11262013 | 14 | 267 | 490 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-167 | 14-496 | CHIP PICKERING/JOHN C STENNIS DR | 11272013 | 14 | 267 | 490 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 14-267-167 | 14-496 | CHIP PICKERING/JOHN C STENNIS DR | 11272013 | 14 | 267 | 496 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 14-267-167 | 14-496 | CHIP PICKERING/JOHN C STENNIS DR | 11272013 | 14 | 267 | 496 WO | Work Order Comment | 3 EMER LOCATE |
| 14-267-168 | 14-500 | 6106 32ND ST | 11272013 | 14 | 267 | 496 WO | Work Order Comment | 4 13112707360041 |
| 14-267-168 | 14-500 | 6106 32ND ST | 11272013 | 14 | 267 | 500 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-169 | 14-505 | 107 51ST AVE | 12022013 | 14 | 267 | 500 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-170 | 14-506 | 513 53RD AVE | 12022013 | 14 | 267 | 505 WO | Work Order Comment | 1 KILLED SERVICE |
| 14-267-170 | 14-506 | 513 53RD AVE | 12022013 | 14 | 267 | 170 WO | Work Order Comment | 1 RAISE MANHOLE & VALVE BOX |
| 14-267-171 | 14-513 | 3219 52ND ST | 12022013 | 14 | 267 | 506 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-171 | 14-513 | 3219 52ND ST | 12022013 | 14 | 267 | 171 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-171 | 14-513 | 3219 52ND ST | 12022013 | 14 | 267 | 171 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-171 | 14-513 | 3219 52ND ST | 12022013 | 14 | 267 | 513 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-172 | 14-517 | 4028 30TH AVE | 12022013 | 14 | 267 | 513 WP | Completed Comments | 1 THE HOME OWNER LINE WAS BROKEN DOWN ON HIS PROPERTY |
| 14-267-172 | 14-517 | 4028 30TH AVE | 12022013 | 14 | 267 | 172 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-172 | 14-517 | 4028 30TH AVE | 12022013 | 14 | 267 | 172 WP | Completed Comments | 1 KILLED SERVICE/LATERAL |
| 14-267-172 | 14-517 | 4028 30TH AVE | 12022013 | 14 | 267 | 517 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-172 | 14-517 | 4028 30TH AVE | 12022013 | 14 | 267 | 517 WP | Completed Comments | 1 ON THE CUST |

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| 14-267-173 | 14-518 | 506 FRONT ST EXT - HWY VILLAGE | 12022013 | 14 | 267 | 173 WO | Work Order Comment |
| 14-267-173 | 14-518 | 506 FRONT ST EXT - HWY VILLAGE | 12022013 | 14 | 267 | 173 WP | Completed Comments |
| 14-267-173 | 14-518 | 506 FRONT ST EXT - HWY VILLAGE | 12022013 | 14 | 267 | 518 WO | Work Order Comment |
| 14-267-173 | 14-518 | 506 FRONT ST EXT - HWY VILLAGE | 12022013 | 14 | 267 | 518 WP | Completed Comments |
| 14-267-173 | 14-518 | 506 FRONT ST EXT - HWY VILLAGE | 12022013 | 14 | 267 | 518 WP | Completed Comments |
| 14-267-174 | 14-519 | 210 22ND AVE | 12022013 | 14 | 267 | 174 WO | Work Order Comment |
| 14-267-174 | 14-519 | 210 22ND AVE | 12022013 | 14 | 267 | 174 WP | Completed Comments |
| 14-267-174 | 14-519 | 210 22ND AVE | 12022013 | 14 | 267 | 519 WO | Work Order Comment |
| 14-267-175 | 14-526 | 705 39TH CT EAST | 12032013 | 14 | 267 | 526 WO | Work Order Comment |
| 14-267-175 | 14-526 | 705 39TH CT EAST | 12032013 | 14 | 267 | 526 WP | Completed Comments |
| 14-267-176 | 14-527 | 2021 31ST ST | 12032013 | 14 | 267 | 527 WO | Work Order Comment |
| 14-267-176 | 14-527 | 2021 31ST ST | 12032013 | 14 | 267 | 527 WP | Completed Comments |
| 14-267-176 | 14-527 | 2021 31ST ST | 12032013 | 14 | 267 | 527 WP | Completed Comments |
| 14-267-176 | 14-527 | 2021 31ST ST | 12032013 | 14 | 267 | 527 WP | Completed Comments |
| 14-267-177 | 14-537 | 3400 11TH ST | 12032013 | 14 | 267 | 537 WO | Work Order Comment |
| 14-267-177 | 14-537 | 3400 11TH ST | 12032013 | 14 | 267 | 537 WP | Completed Comments |
| 14-267-178 | 14-538 | 3217 52ND ST | 12032013 | 14 | 267 | 538 WO | Work Order Comment |
| 14-267-178 | 14-538 | 3217 52ND ST | 12032013 | 14 | 267 | 538 WP | Completed Comments |
| 14-267-179 | 14-549 | 1818 30TH AVE | 12042013 | 14 | 267 | 549 WO | Work Order Comment |
| 14-267-179 | 14-549 | 1818 30TH AVE | 12042013 | 14 | 267 | 549 WP | Completed Comments |
| 14-267-180 | 14-550 | 204 25TH AVE SOUTH | 12042013 | 14 | 267 | 550 WO | Work Order Comment |
| 14-267-180 | 14-550 | 204 25TH AVE SOUTH | 12042013 | 14 | 267 | 550 WP | Completed Comments |
| 14-267-181 | 14-551 | 3818 29TH ST | 12042013 | 14 | 267 | 551 WO | Work Order Comment |
| 14-267-181 | 14-551 | 3818 29TH ST | 12042013 | 14 | 267 | 551 WP | Completed Comments |
| 14-267-181 | 14-551 | 3818 29TH ST | 12042013 | 14 | 267 | 551 WP | Completed Comments |
| 14-267-181 | 14-551 | 3818 29TH ST | 12042013 | 14 | 267 | 551 WP | Completed Comments |
| 14-267-181 | 14-551 | 3818 29TH ST | 12042013 | 14 | 267 | 182 WO | Work Order Comment |
| 14-267-182 | 14-552 | 1522 48TH AVE | 12042013 | 14 | 267 | 552 WO | Work Order Comment |
| 14-267-182 | 14-552 | 1522 48TH AVE | 12042013 | 14 | 267 | 552 WP | Completed Comments |
| 14-267-182 | 14-552 | 1522 48TH AVE | 12042013 | 14 | 267 | 183 WO | Work Order Comment |
| 14-267-183 | 14-553 | 1317 37TH AVE | 12042013 | 14 | 267 | 553 WO | Work Order Comment |
| 14-267-183 | 14-553 | 1317 37TH AVE | 12042013 | 14 | 267 | 553 WP | Completed Comments |
| 14-267-183 | 14-553 | 1317 37TH AVE | 12042013 | 14 | 267 | 553 WP | Completed Comments |
| 14-267-183 | 14-553 | 1317 37TH AVE | 12042013 | 14 | 267 | 184 WO | Work Order Comment |
| 14-267-184 | 14-554 | 15TH ST/48TH - 49TH AVE | 12042013 | 14 | 267 | 554 WO | Work Order Comment |
| 14-267-184 | 14-554 | 15TH ST/48TH - 49TH AVE | 12042013 | 14 | 267 | 554 WP | Completed Comments |
| 14-267-184 | 14-554 | 15TH ST/48TH - 49TH AVE | 12042013 | 14 | 267 | 555 WO | Work Order Comment |
| 14-267-185 | 14-555 | 4233 33RD AVE | 12042013 | 14 | 267 | 555 WP | Completed Comments |
| 14-267-185 | 14-555 | 4233 33RD AVE | 12042013 | 14 | 267 | 556 WO | Work Order Comment |
| 14-267-186 | 14-556 | 44TH AVE/13TH ST | 12042013 | 14 | 267 | 556 WP | Completed Comments |
| 14-267-186 | 14-556 | 44TH AVE/13TH ST | 12042013 | 14 | 267 | 557 WO | Work Order Comment |
| 14-267-187 | 14-557 | 2710 44TH AVE | 12042013 | 14 | 267 | 557 WP | Completed Comments |
| 14-267-187 | 14-557 | 2710 44TH AVE | 12042013 | 14 | 267 | 188 WO | Work Order Comment |
| 14-267-188 | 14-558 | 2802 15TH PLACE | 12042013 | 14 | 267 | 188 WO | Work Order Comment |
| 14-267-188 | 14-558 | 2802 15TH PLACE | 12042013 | 14 | 267 | 188 WP | Completed Comments |
| 14-267-188 | 14-558 | 2802 15TH PLACE | 12042013 | 14 | 267 | 558 WO | Work Order Comment |
| 14-267-188 | 14-558 | 2802 15TH PLACE | 12042013 | 14 | 267 | 558 WP | Completed Comments |
| 14-267-188 | 14-558 | 2802 15TH PLACE | 12042013 | 14 | 267 | 189 WO | Work Order Comment |
| 14-267-189 | 14-563 | 3319 27TH AVE | 12052013 | 14 | 267 | 189 WP | Completed Comments |
| 14-267-189 | 14-563 | 3319 27TH AVE | 12052013 | 14 | 267 | 563 WO | Work Order Comment |
| 14-267-189 | 14-563 | 3319 27TH AVE | 12052013 | 14 | 267 | 563 WP | Completed Comments |
| 14-267-189 | 14-563 | 3319 27TH AVE | 12052013 | 14 | 267 | 190 WO | Work Order Comment |
| 14-267-190 | 14-564 | 5210 DRUID LANE | 12052013 | 14 | 267 | 190 WP | Completed Comments |
| 14-267-190 | 14-564 | 5210 DRUID LANE | 12052013 | 14 | 267 | 564 WO | Work Order Comment |
| 14-267-190 | 14-564 | 5210 DRUID LANE | 12052013 | 14 | 267 | 564 WP | Completed Comments |
| 14-267-190 | 14-564 | 5210 DRUID LANE | 12052013 | 14 | 267 | 568 WO | Work Order Comment |
| 14-267-191 | 14-568 | 40TH ST / 33RD-34TH AVE | 12052013 | 14 | 267 | 569 WO | Work Order Comment |
| 14-267-192 | 14-569 | 116 25TH AVE | 12052013 | 14 | 267 | 569 WP | Completed Comments |
| 14-267-192 | 14-569 | 116 25TH AVE | 12052013 | 14 | 267 | 569 WP | Completed Comments |

- 1 KILL SERVICE
- 1 KILLED SERVICE/LATERAL
- 1 MANHOLE OVERFLOWING
- 1 LINE WAS STOPPED UP W/ GREASE
- 2 FLUSHED LINE
- 1 KILL SERVICE
- 1 KILLED SERVICE/LATERAL
- 1 DRESS UP
- 1 SEWER PROBLEMS
- 1 FLUSHED LINE TO RESOLVE ISSUE
- 1 SEWER LINE REPAIR
- 1 6' 4" SEWER PIPE
- 2 4" C/PVC MISSION COUPLING
- 3 4" PVC/PVC MISSION COUPLING
- 1 SEWER ODOR
- 1 NO PROB FOUND
- 1 MANHOLE OVERFLOWING
- 1 FLUSHED LINE/CLEAN UP AROUND THE MANHOLE
- 1 KILL SERVICE
- 1 KILL SERVICE
- 1 KILL SERVICE
- 1 KILL SERVICE
- 1 SEWER CAVE IN REPAIR
- 1 6'8" SEWER PIPE
- 2 2-8" C/PVC MISSION COUPLING
- 3 4" SEWER TAPPING SADDLE
- 4 4" 4" SEWER PIPE
- 1 KILL SERVICE
- 1 SMOKED SEWER
- 1 SMOKED SEWER
- 1 KILL SERVICE
- 1 SMOKED SEWER
- 3 13120409360302
- 1 CALLED IN LOCATE FOR SEWER REPAIR
- 1 KILL SERVICE
- 1 DRESS UP- CUT NEEDS ATTENTION
- 1 PATCHED CUT
- 1 DRESS UP
- 1 DRESSED UP CUT
- 1 SMOKED SEWER
- 1 TURNED OVER TO STREET DIV
- 1 SEWER BACK UP
- 1 ON THE CUST
- 1 REPAIR SEWER PROBLEMS
- 3 13102514540667
- 1 CALLED IN LOCATE
- 1 MANHOLE OVERFLOWING
- 1 FLUSHED LINE
- 1 REPAIR MANHOLE
- 1 FLUSHED SEWER
- 1 SEWER PROBLEMS
- 1 ON THE CUST
- 1 MANHOLE RING NEEDS REPAIRING
- 1 1 BAG OF CEMENT
- 1 SEWER PROBLEMS
- 1 ON THE CUST
- 1 SEWAGE IN DITCH
- 1 SEWER PROBLEMS
- 1 ON THE CUST

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| 14-267-193 | 14-576 | 4631 1/2 ROYAL RD | 12062013 | 14 | 267 | 576 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-193 | 14-576 | 4631 1/2 ROYAL RD | 12062013 | 14 | 267 | 576 WP | Completed Comments | 1 BAG OF CEMENT |
| 14-267-194 | 14-577 | 2243 46TH AVE | 12062013 | 14 | 267 | 577 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-194 | 14-577 | 2243 46TH AVE | 12062013 | 14 | 267 | 577 WP | Completed Comments | 1 BAG OF CEMENT |
| 14-267-195 | 14-578 | 3614 24TH ST | 12062013 | 14 | 267 | 578 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-195 | 14-578 | 3614 24TH ST | 12062013 | 14 | 267 | 578 WO | Work Order Comment | 3 13120614100512 |
| 14-267-195 | 14-578 | 3614 24TH ST | 12062013 | 14 | 267 | 578 WP | Completed Comments | 1 CALLED IN LOCATE/SEWER REPAIR |
| 14-267-196 | 14-579 | 3219 52ND ST | 12062013 | 14 | 267 | 579 WO | Work Order Comment | 1 SEWER LATERAL |
| 14-267-196 | 14-579 | 3219 52ND ST | 12062013 | 14 | 267 | 579 WO | Work Order Comment | 3 13120611250330 |
| 14-267-196 | 14-579 | 3219 52ND ST | 12062013 | 14 | 267 | 579 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-197 | 14-580 | 6312 C ST | 12062013 | 14 | 267 | 580 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-197 | 14-580 | 6312 C ST | 12062013 | 14 | 267 | 580 WP | Completed Comments | 1 ON THE CUST |
| 14-267-198 | 14-586 | 2802 15TH PLACE | 12092013 | 14 | 267 | 586 WO | Work Order Comment | 1 SINKHOLES (SEWER) |
| 14-267-199 | 14-590 | 4013 37TH ST | 12092013 | 14 | 267 | 590 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-199 | 14-590 | 4013 37TH ST | 12092013 | 14 | 267 | 590 WP | Completed Comments | 1 ON THE CUST |
| 14-267-200 | 14-591 | 4320 13TH ST | 12092013 | 14 | 267 | 591 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-200 | 14-591 | 4320 13TH ST | 12092013 | 14 | 267 | 591 WP | Completed Comments | 1 ON THE CUSTOMER |
| 14-267-201 | 14-592 | 23RD AVE/23RD ST | 12092013 | 14 | 267 | 592 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-201 | 14-592 | 23RD AVE/23RD ST | 12092013 | 14 | 267 | 592 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-202 | 14-596 | HIGHLAND AVE/26TH ST | 12102013 | 14 | 267 | 202 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-202 | 14-596 | HIGHLAND AVE/26TH ST | 12102013 | 14 | 267 | 202 WP | Completed Comments | 1 NO SEWER PROBLEM FOUND |
| 14-267-202 | 14-596 | HIGHLAND AVE/26TH ST | 12102013 | 14 | 267 | 596 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-202 | 14-596 | HIGHLAND AVE/26TH ST | 12102013 | 14 | 267 | 596 WP | Completed Comments | 1 ON US - FLUSHED LINE |
| 14-267-203 | 14-598 | 1317 37TH AVE | 12102013 | 14 | 267 | 598 WO | Work Order Comment | 1 REPAIR SEWER |
| 14-267-203 | 14-598 | 1317 37TH AVE | 12102013 | 14 | 267 | 598 WP | Completed Comments | 1 REPAIRED SEWER |
| 14-267-204 | 14-599 | 2715 28TH ST | 12102013 | 14 | 267 | 204 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-204 | 14-599 | 2715 28TH ST | 12102013 | 14 | 267 | 599 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-27 | 14-60 | 2300 NORTH HILLS STREET | 10082013 | 14 | 267 | 27 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-27 | 14-60 | 2300 NORTH HILLS STREET | 10082013 | 14 | 267 | 27 WO | Work Order Comment | 3 1310031500071 |
| 14-267-27 | 14-60 | 2300 NORTH HILLS STREET | 10082013 | 14 | 267 | 27 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-205 | 14-604 | 3827 13TH PLACE | 12102013 | 14 | 267 | 205 WO | Work Order Comment | 1 FLUSH SEWER LINE |
| 14-267-205 | 14-604 | 3827 13TH PLACE | 12102013 | 14 | 267 | 205 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-205 | 14-604 | 3827 13TH PLACE | 12102013 | 14 | 267 | 604 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-205 | 14-604 | 3827 13TH PLACE | 12102013 | 14 | 267 | 604 WP | Completed Comments | 1 LOCATED LINE/FLUSHED LINE |
| 14-267-206 | 14-607 | 4705 PAULDING ST | 12102013 | 14 | 267 | 206 WO | Work Order Comment | 1 SEWER ODOR/SEWAGE IN DITCH |
| 14-267-206 | 14-607 | 4705 PAULDING ST | 12102013 | 14 | 267 | 206 WP | Completed Comments | 1 MANHOLE RINNING OVER/FLUSHED LINE TO UNSTOP IT |
| 14-267-206 | 14-607 | 4705 PAULDING ST | 12102013 | 14 | 267 | 607 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-206 | 14-607 | 4705 PAULDING ST | 12102013 | 14 | 267 | 607 WP | Completed Comments | 1 ON THE CUST |
| 14-267-207 | 14-608 | 3614 24TH ST | 12112013 | 14 | 267 | 207 WO | Work Order Comment | 1 SEWAGE BACKING UP IN YARD |
| 14-267-207 | 14-608 | 3614 24TH ST | 12112013 | 14 | 267 | 207 WP | Completed Comments | 1 MANHOLE RUNNING OVER/FLUSHED LINE |
| 14-267-207 | 14-608 | 3614 24TH ST | 12112013 | 14 | 267 | 608 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-208 | 14-609 | CHIP PICKERING/JOHN C STENNIS | 12112013 | 14 | 267 | 608 WP | Completed Comments | 1 REPAIRED SEWER LINE |
| 14-267-208 | 14-609 | CHIP PICKERING/JOHN C STENNIS | 12112013 | 14 | 267 | 609 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-209 | 14-610 | 1420 17TH ST | 12112013 | 14 | 267 | 609 WO | Work Order Comment | 3 13121108080093 |
| 14-267-209 | 14-610 | 1420 17TH ST | 12112013 | 14 | 267 | 610 WO | Work Order Comment | 1 CAVE IN ON SEWER |
| 14-267-209 | 14-610 | 1420 17TH ST | 12112013 | 14 | 267 | 610 WO | Work Order Comment | 3 13121213550669 |
| 14-267-210 | 14-615 | 210 22ND AVE GSNB | 12112013 | 14 | 267 | 610 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-210 | 14-615 | 210 22ND AVE GSNB | 12112013 | 14 | 267 | 615 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-210 | 14-615 | 210 22ND AVE GSNB | 12112013 | 14 | 267 | 615 WO | Work Order Comment | 3 13121114220621 |
| 14-267-211 | 14-618 | 512 14TH AVE | 12122013 | 14 | 267 | 615 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-211 | 14-618 | 512 14TH AVE | 12122013 | 14 | 267 | 211 WO | Work Order Comment | 1 SEWER BACKUP |
| 14-267-211 | 14-618 | 512 14TH AVE | 12122013 | 14 | 267 | 211 WP | Completed Comments | 1 FLUSHED MAIN LINE |
| 14-267-212 | 14-619 | 1221 31ST AVE | 12122013 | 14 | 267 | 618 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-212 | 14-619 | 1221 31ST AVE | 12122013 | 14 | 267 | 619 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-213 | 14-620 | 521 53RD AVE | 12122013 | 14 | 267 | 619 WP | Completed Comments | 1 KILLED SERVICE/1 BAG OF CEMENT |
| 14-267-213 | 14-620 | 521 53RD AVE | 12122013 | 14 | 267 | 620 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-214 | 14-621 | 111 51ST AVE | 12122013 | 14 | 267 | 620 WP | Completed Comments | 1 KILLED SERVICE / 1 BAG CONCRETE |
| 14-267-214 | 14-621 | 111 51ST AVE | 12122013 | 14 | 267 | 621 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-214 | 14-621 | 111 51ST AVE | 12122013 | 14 | 267 | 621 WP | Completed Comments | 1 KILLED SERVICE |

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| 14-267-215 | 14-622 | CHIP PICKERING/JOHN C STENNIS | 12122013 | 14 | 267 | 622 WO | Work Order Comment | 1 DRESS UP |
| 14-267-215 | 14-622 | CHIP PICKERING/JOHN C STENNIS | 12122013 | 14 | 267 | 622 WP | Completed Comments | 1 REPLACED 12" PIPE |
| 14-267-216 | 14-623 | 44TH AVE/13TH ST | 12122013 | 14 | 267 | 623 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-216 | 14-623 | 44TH AVE/13TH ST | 12122013 | 14 | 267 | 623 WP | Completed Comments | 1 REPAIRED SEWER CAVE IN |
| 14-267-217 | 14-626 | 3219 52ND ST | 12132013 | 14 | 267 | 217 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-217 | 14-626 | 3219 52ND ST | 12132013 | 14 | 267 | 626 WO | Work Order Comment | 1 SEWER LATERAL REPAIR |
| 14-267-217 | 14-626 | 3219 52ND ST | 12132013 | 14 | 267 | 626 WP | Completed Comments | 1 4" C/PVC MISSION COUPLING |
| 14-267-218 | 14-630 | 14TH AVE/13TH ST | 12132013 | 14 | 267 | 218 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-218 | 14-630 | 14TH AVE/13TH ST | 12132013 | 14 | 267 | 630 WO | Work Order Comment | 1 DRESS UP |
| 14-267-219 | 14-632 | 27TH AVE SOUTH/ CHANDLER ST | 12132013 | 14 | 267 | 219 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-219 | 14-632 | 27TH AVE SOUTH/ CHANDLER ST | 12132013 | 14 | 267 | 632 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-219 | 14-632 | 27TH AVE SOUTH/ CHANDLER ST | 12132013 | 14 | 267 | 632 WP | Completed Comments | 1 NO SEWER PROBLEM/WATER LEAK |
| 14-267-220 | 14-633 | 1309 45TH AVE | 12132013 | 14 | 267 | 220 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-220 | 14-633 | 1309 45TH AVE | 12132013 | 14 | 267 | 633 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-220 | 14-633 | 1309 45TH AVE | 12132013 | 14 | 267 | 633 WP | Completed Comments | 1 ON THE CUST |
| 14-267-221 | 14-634 | 1616 8TH AVE | 12132013 | 14 | 267 | 221 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-221 | 14-634 | 1616 8TH AVE | 12132013 | 14 | 267 | 634 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-221 | 14-634 | 1616 8TH AVE | 12132013 | 14 | 267 | 634 WP | Completed Comments | 1 ON THE CUST |
| 14-267-222 | 14-635 | 3815 35TH ST | 12132013 | 14 | 267 | 635 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-222 | 14-635 | 3815 35TH ST | 12132013 | 14 | 267 | 635 WP | Completed Comments | 1 ON THE CUST |
| 14-267-223 | 14-641 | 2607 SELLERS DRIVE | 12162013 | 14 | 267 | 223 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-223 | 14-641 | 2607 SELLERS DRIVE | 12162013 | 14 | 267 | 641 WO | Work Order Comment | 1 DRAINS BACKING UP |
| 14-267-223 | 14-641 | 2607 SELLERS DRIVE | 12162013 | 14 | 267 | 641 WP | Completed Comments | 1 ON THE CUST/67/8 SPOKE WITH CUST TO ADVISE |
| 14-267-224 | 14-642 | 5420 33RD PLACE | 12162013 | 14 | 267 | 224 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-224 | 14-642 | 5420 33RD PLACE | 12162013 | 14 | 267 | 224 WP | Completed Comments | 1 1 BAG CONCRETE |
| 14-267-224 | 14-642 | 5420 33RD PLACE | 12162013 | 14 | 267 | 642 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-224 | 14-642 | 5420 33RD PLACE | 12162013 | 14 | 267 | 642 WP | Completed Comments | 1 ON THE CUST/67-8 SPOKE WITH THE CUST TO ADVISE |
| 14-267-225 | 14-652 | 1420 17TH ST | 12172013 | 14 | 267 | 225 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-225 | 14-652 | 1420 17TH ST | 12172013 | 14 | 267 | 225 WP | Completed Comments | 1 LOCATE |
| 14-267-225 | 14-652 | 1420 17TH ST | 12172013 | 14 | 267 | 652 WO | Work Order Comment | 1 REPAIRED SEWER CAVE IN |
| 14-267-226 | 14-657 | 210 22ND AVE | 12172013 | 14 | 267 | 226 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-226 | 14-657 | 210 22ND AVE | 12172013 | 14 | 267 | 226 WP | Completed Comments | 1 PROBLEM ON CUST |
| 14-267-226 | 14-657 | 210 22ND AVE | 12172013 | 14 | 267 | 657 WO | Work Order Comment | 1 REPAIR SEWER LINE |
| 14-267-226 | 14-657 | 210 22ND AVE | 12172013 | 14 | 267 | 657 WP | Completed Comments | 1 4" SEWER |
| 14-267-227 | 14-662 | WESTERN GARDENS APT | 12172013 | 14 | 267 | 662 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 14-267-227 | 14-662 | WESTERN GARDENS APT | 12172013 | 14 | 267 | 662 WP | Completed Comments | 1 ON THE CUST |
| 14-267-228 | 14-663 | 1703 16TH AVE | 12172013 | 14 | 267 | 663 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-228 | 14-663 | 1703 16TH AVE | 12172013 | 14 | 267 | 663 WP | Completed Comments | 1 ON THE CUST |
| 14-267-229 | 14-671 | 4629 18TH AVE | 12182013 | 14 | 267 | 671 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-229 | 14-671 | 4629 18TH AVE | 12182013 | 14 | 267 | 671 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP LINE |
| 14-267-230 | 14-672 | 4503 VALLY ST | 12182013 | 14 | 267 | 672 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-230 | 14-672 | 4503 VALLY ST | 12182013 | 14 | 267 | 672 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 14-267-231 | 14-673 | 3809 32ND ST | 12182013 | 14 | 267 | 231 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-231 | 14-673 | 3809 32ND ST | 12182013 | 14 | 267 | 231 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-231 | 14-673 | 3809 32ND ST | 12182013 | 14 | 267 | 673 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-231 | 14-673 | 3809 32ND ST | 12182013 | 14 | 267 | 673 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP SEWER |
| 14-267-232 | 14-675 | 4427 27TH ST | 12182013 | 14 | 267 | 675 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-232 | 14-675 | 4427 27TH ST | 12182013 | 14 | 267 | 675 WP | Completed Comments | 1 ON THE CUST |
| 14-267-233 | 14-687 | 29TH AVE/GREAT RIVER DRIVE | 12202013 | 14 | 267 | 687 WO | Work Order Comment | 1 REPAIR MANHOLE |
| 14-267-233 | 14-687 | 29TH AVE/GREAT RIVER DRIVE | 12202013 | 14 | 267 | 687 WP | Completed Comments | 1 CHANGED OUT MANHOLE CASTING AND PUT CEMENT AROUND CASTING |
| 14-267-3 | 14-7 | 2435 NORTH HILLS ST | 10022013 | 14 | 267 | 3 WO | Work Order Comment | 1 ROOTS IN SEWER LINE |
| 14-267-3 | 14-7 | 2435 NORTH HILLS ST | 10022013 | 14 | 267 | 3 WP | Completed Comments | 1 3/4 CURB STOP |
| 14-267-3 | 14-7 | 2435 NORTH HILLS ST | 10022013 | 14 | 267 | 3 WP | Completed Comments | 2 1" REDI CLAMP |
| 14-267-234 | 14-700 | 1323 36TH AVE | 12202013 | 14 | 267 | 700 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-234 | 14-700 | 1323 36TH AVE | 12202013 | 14 | 267 | 700 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-235 | 14-703 | 34TH ST/GRANDVIEW AVE | 12232013 | 14 | 267 | 703 WO | Work Order Comment | 1 DRESS UP |
| 14-267-235 | 14-703 | 34TH ST/GRANDVIEW AVE | 12232013 | 14 | 267 | 703 WP | Completed Comments | 1 DRESSED UP CUT |
| 14-267-236 | 14-709 | 503 E STREET | 12232013 | 14 | 267 | 709 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-236 | 14-709 | 503 E STREET | 12232013 | 14 | 267 | 709 WO | Work Order Comment | 3 13121611220550 |

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|------------|--------|--------------------------|----------|----|-----|--------|--------------------|--|
| 14-267-236 | 14-709 | 503 E STREET | 12232013 | 14 | 267 | 709 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-237 | 14-721 | 65TH AVE/OLD 8TH ST RD | 12312013 | 14 | 267 | 721 WO | Work Order Comment | 1 SEWER LEAK |
| 14-267-237 | 14-721 | 65TH AVE/OLD 8TH ST RD | 12312013 | 14 | 267 | 721 WO | Work Order Comment | 3 13122610210309 |
| 14-267-237 | 14-721 | 65TH AVE/OLD 8TH ST RD | 12312013 | 14 | 267 | 721 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-238 | 14-723 | 630 HWY 11/80 | 12312013 | 14 | 267 | 723 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 14-267-238 | 14-723 | 630 HWY 11/80 | 12312013 | 14 | 267 | 723 WO | Work Order Comment | 3 13122710230248 |
| 14-267-238 | 14-723 | 630 HWY 11/80 | 12312013 | 14 | 267 | 723 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-239 | 14-724 | 1512 45TH AVE | 12312013 | 14 | 267 | 724 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-239 | 14-724 | 1512 45TH AVE | 12312013 | 14 | 267 | 724 WO | Work Order Comment | 3 13122715550485 |
| 14-267-239 | 14-724 | 1512 45TH AVE | 12312013 | 14 | 267 | 724 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-240 | 14-732 | 1212 47TH AVE | 12312013 | 14 | 267 | 732 WO | Work Order Comment | 1 CLEAN OUT PLUG OVERFLOWING |
| 14-267-240 | 14-732 | 1212 47TH AVE | 12312013 | 14 | 267 | 732 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 14-267-241 | 14-733 | 4641 ROYAL RD | 12312013 | 14 | 267 | 733 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-241 | 14-733 | 4641 ROYAL RD | 12312013 | 14 | 267 | 733 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 14-267-242 | 14-739 | 3305 INDUSTRIAL DRIVE #2 | 12312013 | 14 | 267 | 242 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-242 | 14-739 | 3305 INDUSTRIAL DRIVE #2 | 12312013 | 14 | 267 | 242 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-242 | 14-739 | 3305 INDUSTRIAL DRIVE #2 | 12312013 | 14 | 267 | 739 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-242 | 14-739 | 3305 INDUSTRIAL DRIVE #2 | 12312013 | 14 | 267 | 739 WP | Completed Comments | 1 ON THE CUST |
| 14-267-243 | 14-740 | 1ST ST/53RD AVE | 12312013 | 14 | 267 | 740 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-243 | 14-740 | 1ST ST/53RD AVE | 12312013 | 14 | 267 | 740 WP | Completed Comments | 1 MANHOLE WAS RUNNING OVER FROM SEWER/DUILD UP/FLUSHED LINE TO |
| 14-267-243 | 14-740 | 1ST ST/53RD AVE | 12312013 | 14 | 267 | 740 WP | Completed Comments | 2 RESOLVE ISSUE |
| 14-267-244 | 14-741 | 329 HAWKINS CROSSING | 12312013 | 14 | 267 | 244 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-244 | 14-741 | 329 HAWKINS CROSSING | 12312013 | 14 | 267 | 244 WP | Completed Comments | 1 MANHOLE RUNNING OVER/FLUSHED LINE |
| 14-267-244 | 14-741 | 329 HAWKINS CROSSING | 12312013 | 14 | 267 | 741 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-244 | 14-741 | 329 HAWKINS CROSSING | 12312013 | 14 | 267 | 741 WP | Completed Comments | 1 FLUSHED LINE/PROBLEM ON CUST |
| 14-267-245 | 14-743 | 1512 45TH AVE | 01022014 | 14 | 267 | 245 WO | Work Order Comment | 1 SEWER PROBLEMS/FLUSH LINE |
| 14-267-245 | 14-743 | 1512 45TH AVE | 01022014 | 14 | 267 | 245 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-245 | 14-743 | 1512 45TH AVE | 01022014 | 14 | 267 | 743 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-245 | 14-743 | 1512 45TH AVE | 01022014 | 14 | 267 | 743 WP | Completed Comments | 1 TAPPING SADDLE |
| 14-267-246 | 14-747 | 11TH AVE/19TH ST | 01022014 | 14 | 267 | 743 WP | Completed Comments | 2 4" SEWER PIPE |
| 14-267-246 | 14-747 | 11TH AVE/19TH ST | 01022014 | 14 | 267 | 246 WO | Work Order Comment | 1 CAMERA LINE |
| 14-267-246 | 14-747 | 11TH AVE/19TH ST | 01022014 | 14 | 267 | 246 WP | Completed Comments | 1 CMAERA'D LINE/CALLED IN LOCATE |
| 14-267-247 | 14-748 | 623 44TH AVE | 01022014 | 14 | 267 | 747 WO | Work Order Comment | 1 SMOKIE SEWER FOR CAVE IN |
| 14-267-247 | 14-748 | 623 44TH AVE | 01022014 | 14 | 267 | 748 WO | Work Order Comment | 1 SEWER BROKEN DOWN |
| 14-267-247 | 14-748 | 623 44TH AVE | 01022014 | 14 | 267 | 748 WO | Work Order Comment | 3 14010208330153 |
| 14-267-248 | 14-749 | 1509 33RD AVE | 01022014 | 14 | 267 | 748 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-248 | 14-749 | 1509 33RD AVE | 01022014 | 14 | 267 | 749 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-249 | 14-753 | 4503 VALLEY ST | 01022014 | 14 | 267 | 749 WP | Completed Comments | 1 PROBLEM ON THE CUST |
| 14-267-249 | 14-753 | 4503 VALLEY ST | 01022014 | 14 | 267 | 753 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-28 | 14-76 | 1704 19TH AVE | 10092013 | 14 | 267 | 753 WP | Completed Comments | 1 FLUSHED MAIN LINE TO RESOLVE ISSUE |
| 14-267-28 | 14-76 | 1704 19TH AVE | 10092013 | 14 | 267 | 28 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-28 | 14-76 | 1704 19TH AVE | 10092013 | 14 | 267 | 28 WO | Work Order Comment | 3 13100314470749 |
| 14-267-250 | 14-761 | 16TH ST/12TH AVE | 10092013 | 14 | 267 | 28 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-250 | 14-761 | 16TH ST/12TH AVE | 01032014 | 14 | 267 | 761 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-250 | 14-761 | 16TH ST/12TH AVE | 01032014 | 14 | 267 | 761 WO | Work Order Comment | 3 14010309170200 |
| 14-267-250 | 14-761 | 16TH ST/12TH AVE | 01032014 | 14 | 267 | 761 WO | Work Order Comment | 2 SMOKED SEWER |
| 14-267-251 | 14-765 | 4001 20TH ST | 01032014 | 14 | 267 | 761 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-251 | 14-765 | 4001 20TH ST | 01032014 | 14 | 267 | 765 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-252 | 14-766 | 4900 PSD | 01032014 | 14 | 267 | 765 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 14-267-252 | 14-766 | 4900 PSD | 01032014 | 14 | 267 | 766 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-252 | 14-766 | 4900 PSD | 01032014 | 14 | 267 | 766 WP | Completed Comments | 1 ON THE CUST |
| 14-267-253 | 14-767 | 1925 22ND AVE HEIGHTS | 01032014 | 14 | 267 | 767 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-253 | 14-767 | 1925 22ND AVE HEIGHTS | 01032014 | 14 | 267 | 767 WP | Completed Comments | 1 8" SEWER PIPE 2- 8 CLAY PVC COUPLING |
| 14-267-253 | 14-767 | 1925 22ND AVE HEIGHTS | 01032014 | 14 | 267 | 767 WP | Completed Comments | 2 4" SEWER PIPE |
| 14-267-253 | 14-767 | 1925 22ND AVE HEIGHTS | 01032014 | 14 | 267 | 767 WP | Completed Comments | 3 4" TAPPING SADDLE |
| 14-267-254 | 14-768 | 6416 HWY 39 N | 01062014 | 14 | 267 | 768 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-254 | 14-768 | 6416 HWY 39 N | 01062014 | 14 | 267 | 768 WP | Completed Comments | 1 VALVE BOX LEAKING |
| 14-267-255 | 14-769 | 3611 29TH ST | 01062014 | 14 | 267 | 769 WO | Work Order Comment | 1 SEWER LINE COLLAPSED IN BACK YARD |
| 14-267-29 | 14-77 | 1513 14TH AVE | 10092013 | 14 | 267 | 29 WO | Work Order Comment | 1 KILL SEWER SERVICE |

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| 14-267-29 | 14-77 | 1513 14TH AVE | 10092013 | 14 | 267 | 29 WO | Work Order Comment |
| 14-267-29 | 14-77 | 1513 14TH AVE | 10092013 | 14 | 267 | 29 WP | Completed Comments |
| 14-267-256 | 14-770 | 5227 31ST PLACE | 01062014 | 14 | 267 | 256 WO | Work Order Comment |
| 14-267-256 | 14-770 | 5227 31ST PLACE | 01062014 | 14 | 267 | 256 WP | Completed Comments |
| 14-267-256 | 14-770 | 5227 31ST PLACE | 01062014 | 14 | 267 | 770 WO | Work Order Comment |
| 14-267-256 | 14-770 | 5227 31ST PLACE | 01062014 | 14 | 267 | 770 WP | Completed Comments |
| 14-267-257 | 14-772 | 825 47TH AVE | 01062014 | 14 | 267 | 257 WO | Work Order Comment |
| 14-267-257 | 14-772 | 825 47TH AVE | 01062014 | 14 | 267 | 257 WP | Completed Comments |
| 14-267-257 | 14-772 | 825 47TH AVE | 01062014 | 14 | 267 | 772 WO | Work Order Comment |
| 14-267-258 | 14-777 | 825 47TH AVE | 01062014 | 14 | 267 | 258 WO | Work Order Comment |
| 14-267-258 | 14-777 | 825 47TH AVE | 01062014 | 14 | 267 | 258 WP | Completed Comments |
| 14-267-258 | 14-777 | 825 47TH AVE | 01062014 | 14 | 267 | 777 WO | Work Order Comment |
| 14-267-259 | 14-779 | 5310 1ST ST | 01062014 | 14 | 267 | 259 WO | Work Order Comment |
| 14-267-259 | 14-779 | 5310 1ST ST | 01062014 | 14 | 267 | 259 WP | Completed Comments |
| 14-267-259 | 14-779 | 5310 1ST ST | 01062014 | 14 | 267 | 779 WO | Work Order Comment |
| 14-267-259 | 14-779 | 5310 1ST ST | 01062014 | 14 | 267 | 779 WP | Completed Comments |
| 14-267-30 | 14-78 | 1412 34TH AVE | 10092013 | 14 | 267 | 30 WO | Work Order Comment |
| 14-267-30 | 14-78 | 1412 34TH AVE | 10092013 | 14 | 267 | 30 WO | Work Order Comment |
| 14-267-30 | 14-78 | 1412 34TH AVE | 10092013 | 14 | 267 | 30 WP | Completed Comments |
| 14-267-31 | 14-79 | 1103 36TH AVE | 10092013 | 14 | 267 | 31 WO | Work Order Comment |
| 14-267-31 | 14-79 | 1103 36TH AVE | 10092013 | 14 | 267 | 31 WO | Work Order Comment |
| 14-267-31 | 14-79 | 1103 36TH AVE | 10092013 | 14 | 267 | 31 WP | Completed Comments |
| 14-267-260 | 14-797 | 5227 31ST PLACE | 01082014 | 14 | 267 | 797 WO | Work Order Comment |
| 14-267-261 | 14-798 | 12TH AVE/16TH ST | 01082014 | 14 | 267 | 261 WO | Work Order Comment |
| 14-267-261 | 14-798 | 12TH AVE/16TH ST | 01082014 | 14 | 267 | 261 WO | Work Order Comment |
| 14-267-261 | 14-798 | 12TH AVE/16TH ST | 01082014 | 14 | 267 | 261 WP | Completed Comments |
| 14-267-261 | 14-798 | 12TH AVE/16TH ST | 01082014 | 14 | 267 | 798 WO | Work Order Comment |
| 14-267-262 | 14-799 | 4029 58TH PLACE | 01082014 | 14 | 267 | 262 WO | Work Order Comment |
| 14-267-262 | 14-799 | 4029 58TH PLACE | 01082014 | 14 | 267 | 262 WP | Completed Comments |
| 14-267-262 | 14-799 | 4029 58TH PLACE | 01082014 | 14 | 267 | 799 WO | Work Order Comment |
| 14-267-262 | 14-799 | 4029 58TH PLACE | 01082014 | 14 | 267 | 799 WO | Work Order Comment |
| 14-267-262 | 14-799 | 4029 58TH PLACE | 01082014 | 14 | 267 | 799 WP | Completed Comments |
| 14-267-262 | 14-799 | 4029 58TH PLACE | 01082014 | 14 | 267 | 799 WP | Completed Comments |
| 14-267-32 | 14-80 | 1407 28TH AVE | 10092013 | 14 | 267 | 32 WO | Work Order Comment |
| 14-267-32 | 14-80 | 1407 28TH AVE | 10092013 | 14 | 267 | 32 WO | Work Order Comment |
| 14-267-32 | 14-80 | 1407 28TH AVE | 10092013 | 14 | 267 | 32 WP | Completed Comments |
| 14-267-263 | 14-810 | 905 65TH AVE | 01092014 | 14 | 267 | 810 WO | Work Order Comment |
| 14-267-263 | 14-810 | 905 65TH AVE | 01092014 | 14 | 267 | 810 WP | Completed Comments |
| 14-267-264 | 14-813 | CHIP PICKERING | 01092014 | 14 | 267 | 813 WO | Work Order Comment |
| 14-267-264 | 14-813 | CHIP PICKERING | 01092014 | 14 | 267 | 813 WO | Work Order Comment |
| 14-267-265 | 14-828 | 4029 58TH PLACE | 01132014 | 14 | 267 | 828 WO | Work Order Comment |
| 14-267-266 | 14-829 | 623 44TH AVE | 01132014 | 14 | 267 | 266 WO | Work Order Comment |
| 14-267-266 | 14-829 | 623 44TH AVE | 01132014 | 14 | 267 | 266 WP | Completed Comments |
| 14-267-266 | 14-829 | 623 44TH AVE | 01132014 | 14 | 267 | 829 WO | Work Order Comment |
| 14-267-266 | 14-829 | 623 44TH AVE | 01132014 | 14 | 267 | 33 WO | Work Order Comment |
| 14-267-33 | 14-83 | 4400 HWY 39 N | 10092013 | 14 | 267 | 33 WO | Work Order Comment |
| 14-267-33 | 14-83 | 4400 HWY 39 N | 10092013 | 14 | 267 | 33 WP | Completed Comments |
| 14-267-33 | 14-83 | 4400 HWY 39 N | 10092013 | 14 | 267 | 267 WO | Work Order Comment |
| 14-267-267 | 14-833 | 1502 45TH AVE | 01132014 | 14 | 267 | 267 WP | Completed Comments |
| 14-267-267 | 14-833 | 1502 45TH AVE | 01132014 | 14 | 267 | 267 WP | Completed Comments |
| 14-267-267 | 14-833 | 1502 45TH AVE | 01132014 | 14 | 267 | 833 WO | Work Order Comment |
| 14-267-268 | 14-834 | 806 HWY 19 N SUITE 390 | 01132014 | 14 | 267 | 834 WO | Work Order Comment |
| 14-267-268 | 14-834 | 806 HWY 19 N SUITE 390 | 01132014 | 14 | 267 | 834 WP | Completed Comments |
| 14-267-269 | 14-835 | 6204 CHERRY ST | 01132014 | 14 | 267 | 269 WO | Work Order Comment |
| 14-267-269 | 14-835 | 6204 CHERRY ST | 01132014 | 14 | 267 | 269 WP | Completed Comments |
| 14-267-269 | 14-835 | 6204 CHERRY ST | 01132014 | 14 | 267 | 835 WO | Work Order Comment |

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| 3 13100314270715 |
| 1 CALLED IN LOCATE |
| 1 KILL SERVICE |
| 1 1 BAG CEMENT |
| 1 SEWER CAVE IN |
| 3 14010608140121 |
| 1 CALLED IN LOCATE |
| 1 KILL SERVICE |
| 1 1 BAG OF CEMENT |
| 1 SEWER BACK UP |
| 1 KILL SERVICE |
| 1 1 BAG CEMENT |
| 1 SEWER PROBLEMS |
| 1 KILL SERVICE |
| 1 1 BAG OF CEMENT |
| 1 SEWER PROBLEMS |
| 1 ON THEM |
| 3 MANHOLE NEED ATTENTION |
| 1 KILL SEWER SERVICE |
| 3 13100314540762 |
| 1 CALLED IN LOCATE |
| 1 KILL SEWER SERVICE |
| 3 13100314070672 |
| 1 CALLED IN LOCATE |
| 1 SEWER CAVE IN |
| 1 REPAIR SEWER LINE |
| 3 13102508240082 |
| 1 REPAIRED SEWER LINE |
| 1 REPAIR SEWER CAVE IN |
| 1 SEWER ODOR/PROBLEMS |
| 1 NO PROBLEM FOUND |
| 1 SEWER CAVE IN |
| 3 14010808190090 |
| 4 14030415540906 |
| 1 CALLED IN LOCATE |
| 1 KILL SERVICE |
| 3 13100414210615 |
| 1 1 BAG OF CONCRETE |
| 1 REPAIR SEWER CAVE IN |
| 1 NO CAVE IN |
| 1 REPAIR SEWER LINE |
| 3 14010909150243 |
| 1 SEWER CAVE IN |
| 1 CAVE IN |
| 3 13102813520826 |
| 1 CALLED IN LOCATE |
| 1 SEWER REPAIR |
| 1 KILL SERVICE |
| 3 13100408270102 |
| 1 CALLED IN LOCATE |
| 1 SEWER PROBLEMS |
| 1 5' 4" PVC PIPE |
| 2 2-4" C/PVC MISSION |
| 1 CUT NEEDS ATTENTION |
| 1 SEWER PROBLEMS |
| 1 PROBLEM ON THE CUST |
| 1 SEWER BACK UP |
| 1 PROBLEM ON CUSTOMER |
| 1 SEWER PROBLEMS |

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| 14-267-269 | 14-835 | 6204 CHERRY ST | 01132014 | 14 | 267 | 835 WP | Completed Comments | 1 PROBLEM ON CUST |
| 14-267-270 | 14-836 | 2011 33RD AVE | 01132014 | 14 | 267 | 836 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-270 | 14-836 | 2011 33RD AVE | 01132014 | 14 | 267 | 836 WP | Completed Comments | 1 ON US/FLUSHED LINE |
| 14-267-271 | 14-837 | 204 55TH AVE | 01132014 | 14 | 267 | 837 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-271 | 14-837 | 204 55TH AVE | 01132014 | 14 | 267 | 837 WP | Completed Comments | 1 POBLEM ON THE CUST |
| 14-267-34 | 14-84 | 206 22ND AVE | 10092013 | 14 | 267 | 34 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-34 | 14-84 | 206 22ND AVE | 10092013 | 14 | 267 | 34 WO | Work Order Comment | 3 13100408290109 |
| 14-267-34 | 14-84 | 206 22ND AVE | 10092013 | 14 | 267 | 34 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-272 | 14-840 | BONITA LAKES DAM | 01142014 | 14 | 267 | 840 WO | Work Order Comment | 1 REPAIR DISCHARGE PIPE |
| 14-267-272 | 14-840 | BONITA LAKES DAM | 01142014 | 14 | 267 | 840 WO | Work Order Comment | 3 14011415070873 |
| 14-267-272 | 14-840 | BONITA LAKES DAM | 01142014 | 14 | 267 | 840 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-273 | 14-844 | PINECREEK APTS | 01142014 | 14 | 267 | 273 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-273 | 14-844 | PINECREEK APTS | 01142014 | 14 | 267 | 844 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 14-267-273 | 14-844 | PINECREEK APTS | 01142014 | 14 | 267 | 844 WP | Completed Comments | 1 FLUSHED LINE/UNSTOPPED MANHOLE |
| 14-267-274 | 14-848 | 2011 33RD AVE | 01142014 | 14 | 267 | 274 WO | Work Order Comment | 1 ASSIST STREET DIV |
| 14-267-274 | 14-848 | 2011 33RD AVE | 01142014 | 14 | 267 | 274 WP | Completed Comments | 1 FLUSHED LINE GOOD |
| 14-267-274 | 14-848 | 2011 33RD AVE | 01142014 | 14 | 267 | 848 WO | Work Order Comment | 1 CHECK SEWER LINE |
| 14-267-274 | 14-848 | 2011 33RD AVE | 01142014 | 14 | 267 | 848 WP | Completed Comments | 1 FLUSHED LINE/PROBLEM ON CUST |
| 14-267-275 | 14-849 | 4320 36TH AVE REGENCY APTS | 01142014 | 14 | 267 | 849 WO | Work Order Comment | 1 CHECK SEWER LINES |
| 14-267-275 | 14-849 | 4320 36TH AVE REGENCY APTS | 01142014 | 14 | 267 | 849 WP | Completed Comments | 1 PROBLEM ON CUST |
| 14-267-276 | 14-853 | 14TH ST/18TH AVE | 01152014 | 14 | 267 | 276 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-276 | 14-853 | 14TH ST/18TH AVE | 01152014 | 14 | 267 | 853 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-276 | 14-853 | 14TH ST/18TH AVE | 01152014 | 14 | 267 | 853 WP | Completed Comments | 1 ON US/FLUSHED THE LINE TO UNSTOP LINE |
| 14-267-277 | 14-854 | 1728 11TH AVE | 01152014 | 14 | 267 | 277 WO | Work Order Comment | 1 KILL SERVICE |
| 14-267-277 | 14-854 | 1728 11TH AVE | 01152014 | 14 | 267 | 277 WP | Completed Comments | 1 1 BAG OF CEMENT |
| 14-267-277 | 14-854 | 1728 11TH AVE | 01152014 | 14 | 267 | 854 WO | Work Order Comment | 1 CHECK SEWER LINE/PROBLEMS |
| 14-267-277 | 14-854 | 1728 11TH AVE | 01152014 | 14 | 267 | 854 WP | Completed Comments | 1 DUPLICATE W/O |
| 14-267-278 | 14-855 | 1728 11TH AVE | 01152014 | 14 | 267 | 855 WO | Work Order Comment | 1 CHECK SEWER LINES |
| 14-267-278 | 14-855 | 1728 11TH AVE | 01152014 | 14 | 267 | 855 WP | Completed Comments | 1 ON THE CUST |
| 14-267-279 | 14-856 | 2204 GRAND AVE | 01152014 | 14 | 267 | 279 WO | Work Order Comment | 1 DISINFECT AREA |
| 14-267-279 | 14-856 | 2204 GRAND AVE | 01152014 | 14 | 267 | 279 WP | Completed Comments | 1 MANHOLE RUNNING OVER/FLUSHED LINE |
| 14-267-279 | 14-856 | 2204 GRAND AVE | 01152014 | 14 | 267 | 856 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-279 | 14-856 | 2204 GRAND AVE | 01152014 | 14 | 267 | 856 WP | Completed Comments | 1 FLUSHED LINE TO UNSTOP MANHOLE |
| 14-267-280 | 14-861 | 4052 58TH PLACE | 01162014 | 14 | 267 | 861 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-280 | 14-861 | 4052 58TH PLACE | 01162014 | 14 | 267 | 861 WP | Completed Comments | 1 ON THE CUST |
| 14-267-281 | 14-863 | 5223 LAKEWOOD DR | 01162014 | 14 | 267 | 281 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-281 | 14-863 | 5223 LAKEWOOD DR | 01162014 | 14 | 267 | 281 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-281 | 14-863 | 5223 LAKEWOOD DR | 01162014 | 14 | 267 | 863 WO | Work Order Comment | 1 MANHOLE OVERFLOWING |
| 14-267-281 | 14-863 | 5223 LAKEWOOD DR | 01162014 | 14 | 267 | 863 WP | Completed Comments | 1 MANHOLE RUNNING OVER |
| 14-267-282 | 14-872 | CHIP PICKERING | 01172014 | 14 | 267 | 863 WO | Completed Comments | 2 FLUSHED LINE TO UNSTOP MANHOLE |
| 14-267-282 | 14-872 | CHIP PICKERING | 01172014 | 14 | 267 | 282 WO | Work Order Comment | 1 SEWER ODOR/SEWER BACK UP |
| 14-267-282 | 14-872 | CHIP PICKERING | 01172014 | 14 | 267 | 282 WP | Completed Comments | 1 FLUSHED LINE/UNSTOPPED LINE |
| 14-267-282 | 14-872 | CHIP PICKERING | 01172014 | 14 | 267 | 872 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-282 | 14-872 | CHIP PICKERING | 01172014 | 14 | 267 | 872 WO | Work Order Comment | 3 14011707160017 |
| 14-267-283 | 14-874 | 4615 N HILLS STREET | 01172014 | 14 | 267 | 872 WO | Work Order Comment | 4 14011710150282 EMER |
| 14-267-283 | 14-874 | 4615 N HILLS STREET | 01172014 | 14 | 267 | 283 WO | Work Order Comment | 1 SEWER ODOR |
| 14-267-283 | 14-874 | 4615 N HILLS STREET | 01172014 | 14 | 267 | 283 WP | Completed Comments | 1 FLUSHED LINE/UNSTOPPED LINE |
| 14-267-283 | 14-874 | 4615 N HILLS STREET | 01172014 | 14 | 267 | 874 WO | Work Order Comment | 1 CHECK SEWER LINES |
| 14-267-284 | 14-875 | 2401 14TH AVE | 01172014 | 14 | 267 | 874 WP | Completed Comments | 1 ON THE CUST/PROBLEMS WITH PUMP |
| 14-267-284 | 14-875 | 2401 14TH AVE | 01172014 | 14 | 267 | 284 WO | Work Order Comment | 1 SEWER LINE REPAIR |
| 14-267-284 | 14-875 | 2401 14TH AVE | 01172014 | 14 | 267 | 284 WP | Completed Comments | 1 12" FULL CIRCLE CLAMP |
| 14-267-284 | 14-875 | 2401 14TH AVE | 01172014 | 14 | 267 | 875 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-285 | 14-882 | 1717 34TH AVE | 01172014 | 14 | 267 | 875 WP | Completed Comments | 1 ON THE CUST |
| 14-267-285 | 14-882 | 1717 34TH AVE | 01212014 | 14 | 267 | 882 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-286 | 14-884 | 13 ROBIN LANE | 01212014 | 14 | 267 | 882 WP | Completed Comments | 1 ON THE CUST |
| 14-267-286 | 14-884 | 13 ROBIN LANE | 01212014 | 14 | 267 | 884 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-287 | 14-889 | 3816 36TH AVE | 01212014 | 14 | 267 | 884 WP | Completed Comments | 1 ON THE CUST |
| 14-267-287 | 14-889 | 3816 36TH AVE | 01212014 | 14 | 267 | 889 WO | Work Order Comment | 1 MANHOLE NEED TO BE FLUSHED |
| 14-267-287 | 14-889 | 3816 36TH AVE | 01212014 | 14 | 267 | 889 WP | Completed Comments | 1 ON THE CUST |

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|------------|--------|-----------------------------|----------|----|-----|--------|--------------------|------------------------------------|
| 14-267-288 | 14-890 | WESTERN GARDENS | 01212014 | 14 | 267 | 890 WO | Work Order Comment | 1 REPLACE MISSING CAP ON FIRE PLUG |
| 14-267-289 | 14-901 | 45TH AVE/VALLEY ST | 01222014 | 14 | 267 | 901 WO | Work Order Comment | 1 SEWER CAVE IN |
| 14-267-289 | 14-901 | 45TH AVE/VALLEY ST | 01222014 | 14 | 267 | 901 WO | Work Order Comment | 3 14012209130201 |
| 14-267-290 | 14-903 | 4742 5TH AVE | 01232014 | 14 | 267 | 903 WO | Work Order Comment | 1 LOCATES FOR WATER & SEWER TAPS |
| 14-267-290 | 14-903 | 4742 5TH AVE | 01232014 | 14 | 267 | 903 WO | Work Order Comment | 3 14012310100299 |
| 14-267-290 | 14-903 | 4742 5TH AVE | 01232014 | 14 | 267 | 903 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-291 | 14-904 | 6410 I STREET | 01232014 | 14 | 267 | 904 WO | Work Order Comment | 1 LID & CASTING |
| 14-267-291 | 14-904 | 6410 I STREET | 01232014 | 14 | 267 | 904 WO | Work Order Comment | 1 SEWER BACK UP |
| 14-267-292 | 14-905 | 5059 37TH ST | 01232014 | 14 | 267 | 905 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-292 | 14-905 | 5059 37TH ST | 01232014 | 14 | 267 | 905 WP | Completed Comments | 1 MANHOLE OVERFLOWING |
| 14-267-293 | 14-909 | CEDAR BEND APTS | 01232014 | 14 | 267 | 909 WO | Work Order Comment | 1 ON THE CITY/FLUSHED LINE |
| 14-267-293 | 14-909 | CEDAR BEND APTS | 01232014 | 14 | 267 | 909 WP | Completed Comments | 1 REPAIR SEWER CAVE IN |
| 14-267-294 | 14-917 | 53RD AVE/ARTHUR ST | 01242014 | 14 | 267 | 917 WO | Work Order Comment | 3 14012408060051 |
| 14-267-294 | 14-917 | 53RD AVE/ARTHUR ST | 01242014 | 14 | 267 | 917 WO | Work Order Comment | 4 14012413480487 |
| 14-267-294 | 14-917 | 53RD AVE/ARTHUR ST | 01242014 | 14 | 267 | 917 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-294 | 14-917 | 53RD AVE/ARTHUR ST | 01242014 | 14 | 267 | 917 WP | Completed Comments | 1 CAVE IN |
| 14-267-295 | 14-919 | 107 24TH AVE APT A-2 | 01242014 | 14 | 267 | 919 WO | Work Order Comment | 1 MANHOLE STOPPED UP |
| 14-267-295 | 14-919 | 107 24TH AVE APT A-2 | 01242014 | 14 | 267 | 919 WP | Completed Comments | 1 ON THE CUST |
| 14-267-295 | 14-919 | 107 24TH AVE APT A-2 | 01242014 | 14 | 267 | 919 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-296 | 14-928 | 2020 28TH AVE | 01272014 | 14 | 267 | 928 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-296 | 14-928 | 2020 28TH AVE | 01272014 | 14 | 267 | 928 WP | Completed Comments | 1 SEWER CAVE IN |
| 14-267-296 | 14-928 | 2020 28TH AVE | 01272014 | 14 | 267 | 928 WP | Completed Comments | 3 14012709370284 |
| 14-267-297 | 14-929 | B STREET/RUBUSH AVE | 01272014 | 14 | 267 | 929 WO | Work Order Comment | 4 14030616031114 |
| 14-267-297 | 14-929 | B STREET/RUBUSH AVE | 01272014 | 14 | 267 | 929 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-297 | 14-929 | B STREET/RUBUSH AVE | 01272014 | 14 | 267 | 929 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-297 | 14-929 | B STREET/RUBUSH AVE | 01272014 | 14 | 267 | 929 WP | Completed Comments | 1 ON THE CITY/FLUSHED LINE |
| 14-267-298 | 14-931 | 1408 ROEBUCK DR | 01272014 | 14 | 267 | 931 WO | Work Order Comment | 1 SEWER REPAIR |
| 14-267-298 | 14-931 | 1408 ROEBUCK DR | 01272014 | 14 | 267 | 931 WP | Completed Comments | 3 14012714530834 |
| 14-267-298 | 14-931 | 1408 ROEBUCK DR | 01272014 | 14 | 267 | 931 WP | Completed Comments | 1 DRESS UP |
| 14-267-299 | 14-936 | CHIP PICKERING DR | 01272014 | 14 | 267 | 936 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-299 | 14-936 | CHIP PICKERING DR | 01272014 | 14 | 267 | 936 WO | Work Order Comment | 3 14013007080004 |
| 14-267-299 | 14-936 | CHIP PICKERING DR | 01272014 | 14 | 267 | 936 WO | Work Order Comment | 1 1-SECTION OF SEWER PIPE DIP |
| 14-267-300 | 14-939 | 6TH ST/19TH AVE | 01302014 | 14 | 267 | 945 WO | Work Order Comment | 2 12" HIMAX |
| 14-267-301 | 14-945 | CHIP PICKERING | 01302014 | 14 | 267 | 945 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-301 | 14-945 | CHIP PICKERING | 01302014 | 14 | 267 | 945 WP | Completed Comments | 1 FLUSHED LINE |
| 14-267-301 | 14-945 | CHIP PICKERING | 01302014 | 14 | 267 | 945 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-301 | 14-945 | CHIP PICKERING | 01302014 | 14 | 267 | 302 WO | Work Order Comment | 1 FLUSHED LINE |
| 14-267-302 | 14-946 | 514 HWY 19 EAST | 01302014 | 14 | 267 | 302 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-302 | 14-946 | 514 HWY 19 EAST | 01302014 | 14 | 267 | 946 WO | Work Order Comment | 1 FLUSHED LINE TO UNSTOP MANHOLE |
| 14-267-302 | 14-946 | 514 HWY 19 EAST | 01302014 | 14 | 267 | 946 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-302 | 14-946 | 514 HWY 19 EAST | 01302014 | 14 | 267 | 947 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-303 | 14-947 | OAKLAND HEIGHTS CTS/63RD PL | 01302014 | 14 | 267 | 947 WP | Completed Comments | 1 ON THE CITY/FLUSHED LINE |
| 14-267-303 | 14-947 | OAKLAND HEIGHTS CTS/63RD PL | 01302014 | 14 | 267 | 947 WP | Completed Comments | 1 SEWER CAVE IN REPAIR |
| 14-267-304 | 14-952 | 53RD AVE/ARTHUR ST | 01312014 | 14 | 267 | 952 WO | Work Order Comment | 1 CHECK MANHOLE |
| 14-267-305 | 14-955 | 29TH AVE/20TH ST | 01312014 | 14 | 267 | 955 WO | Work Order Comment | 1 FLUSHED MANHOLE |
| 14-267-305 | 14-955 | 29TH AVE/20TH ST | 01312014 | 14 | 267 | 955 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-306 | 14-959 | 3892 CC DRIVE | 01312014 | 14 | 267 | 959 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-306 | 14-959 | 3892 CC DRIVE | 01312014 | 14 | 267 | 959 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-307 | 14-960 | 3305 INDUSTRIAL DRIVE #2 | 01312014 | 14 | 267 | 960 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-307 | 14-960 | 3305 INDUSTRIAL DRIVE #2 | 01312014 | 14 | 267 | 960 WP | Completed Comments | 1 MANHOLE COVER MISSING |
| 14-267-308 | 14-970 | TOMMY WEBB DRIVE | 02032014 | 14 | 267 | 970 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-309 | 14-973 | 1018 19TH ST | 02032014 | 14 | 267 | 973 WO | Work Order Comment | 1 ON THE CUST |
| 14-267-309 | 14-973 | 1018 19TH ST | 02032014 | 14 | 267 | 973 WP | Completed Comments | 1 SEWER LINE REPAIR |
| 14-267-310 | 14-974 | 45TH AVE/VALLEY ST | 02032014 | 14 | 267 | 310 WO | Work Order Comment | 3 13110109520315 |
| 14-267-310 | 14-974 | 45TH AVE/VALLEY ST | 02032014 | 14 | 267 | 310 WO | Work Order Comment | 1 CALLED IN LOCATE |
| 14-267-310 | 14-974 | 45TH AVE/VALLEY ST | 02032014 | 14 | 267 | 310 WP | Completed Comments | 1 SEWER PROBLEMS |
| 14-267-310 | 14-974 | 45TH AVE/VALLEY ST | 02032014 | 14 | 267 | 310 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 14-267-310 | 14-974 | 45TH AVE/VALLEY ST | 02032014 | 14 | 267 | 974 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-311 | 14-975 | 1322 45TH AVE | 02032014 | 14 | 267 | 974 WP | Completed Comments | 1 ON THE CUST |
| 14-267-311 | 14-975 | 1322 45TH AVE | 02032014 | 14 | 267 | 975 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-312 | 14-979 | 1600 14TH ST | 02032014 | 14 | 267 | 975 WP | Completed Comments | 1 ON THE CUST |
| 14-267-312 | 14-979 | 1600 14TH ST | 02032014 | 14 | 267 | 979 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-312 | 14-979 | 1600 14TH ST | 02032014 | 14 | 267 | 979 WP | Completed Comments | 1 ON THE CUST |
| 14-267-313 | 14-980 | 5316 N HILLS ST | 02032014 | 14 | 267 | 980 WO | Work Order Comment | 1 SEWER TAP |

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| 14-267-313 | 14-980 | 5316 N HILLS ST | 02032014 | 14 | 267 | 980 WO | Work Order Comment | 3 14020315020882 |
| 14-267-313 | 14-980 | 5316 N HILLS ST | 02032014 | 14 | 267 | 980 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-314 | 14-981 | 404 TIMBER RIDGE RD | 02032014 | 14 | 267 | 981 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-314 | 14-981 | 404 TIMBER RIDGE RD | 02032014 | 14 | 267 | 981 WO | Work Order Comment | 3 14020315000877 |
| 14-267-314 | 14-981 | 404 TIMBER RIDGE RD | 02032014 | 14 | 267 | 981 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-315 | 14-982 | N. HILLS ST/BOUNDS RD | 02032014 | 14 | 267 | 982 WO | Work Order Comment | 1 SEWER TAP |
| 14-267-315 | 14-982 | N. HILLS ST/BOUNDS RD | 02032014 | 14 | 267 | 982 WO | Work Order Comment | 3 14020315030886 |
| 14-267-315 | 14-982 | N. HILLS ST/BOUNDS RD | 02032014 | 14 | 267 | 982 WP | Completed Comments | 1 CALLED IN LOCATE |
| 14-267-316 | 14-988 | 2430 4TH ST | 02042014 | 14 | 267 | 988 WO | Work Order Comment | 1 SEWER PROBLEMS |
| 14-267-316 | 14-988 | 2430 4TH ST | 02042014 | 14 | 267 | 988 WP | Completed Comments | 1 NO PROBLEM FOUND |
| 14-267-317 | 14-996 | 902 26TH AVE | 02052014 | 14 | 267 | 996 WO | Work Order Comment | 1 KILL SEWER SERVICE |
| 14-267-317 | 14-996 | 902 26TH AVE | 02052014 | 14 | 267 | 996 WP | Completed Comments | 1 KILLED SEWER SERVICE |